(FILE 'HOME' ENTERED AT 14:57:29 ON 14 JUN 2003)

	FILE	'CAPLU	JS, WPIDS, JAPIO' ENTERED AT 14:58:13 ON 14 JUN 2003
L1		2187	S (HYDROGEN PEROXIDE OR H202 OR HYDROGEN DIOXIDE) (50A) (((PHOS
L2		163	S L1 AND ((HYDROGEN PEROXIDE OR H2O2 OR HYDROGEN DIOXIDE) (25A)
L3		158	DUP REM L2 (5 DUPLICATES REMOVED)
	•		
=> d	que		
L1	_	2187	SEA (HYDROGEN PEROXIDE OR H2O2 OR HYDROGEN DIOXIDE) (50A)
			(((PHOSPHORUS OR PHOSPHOROUS) (3A) ACID#) OR PHOSPHORIC ACID
			OR PHOSPHONIC ACID# OR PHOSPHONATE# OR DIPHOSPHONIC OR
			DIPHOSPHONATE# OR DEQUEST OR BRIQUEST)
L2		163	SEA L1 AND ((HYDROGEN PEROXIDE OR H2O2 OR HYDROGEN DIOXIDE)
			(25A) (SULFONIC OR SULFONATE# OR SULFONATED OR SULFATE#))
L3		158	DUP REM L2 (5 DUPLICATES REMOVED)

10/067, 809

All Reviewed 6/14/03

TI

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ANSWER 1 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2003:173391 CAPLUS
ΑN
DN
     138:209911
     Hair care compositions containing hydrogen peroxide
ΤI
     Murakami, Atsushi; Matsumoto, Heiichiro; Ishimura, Tomoyuki; Tajiri, Miki;
IN
     Sano, Mitsuo; Tsujino, Yoshio
PA
     Mandom Corporation, Japan
SO
     PCT Int. Appl., 17 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 1
                                          APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
                     ____
                                          -----
     _____
                                         WO 2002-JP8608 20020827
                           20030306
PΙ
     WO 2003017954
                     A1
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,
            LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
             PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
            UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
            TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
            NE, SN, TD, TG
                           20010827
PRAI JP 2001-256052
                      Α
    Disclosed are hair care compns. contg. hydrogen peroxide which are to be
     used as hair bleachings, oxidative hair dyes, perming agents and so on.
     These compns. are characterized by contg. hydrogen peroxide together with
     polyoxyethylene lanolin, an oily component, a sequestrant and water. If
     desired, these compns. may further contain an anionic surfactant. These
     compns. exhibit excellent emulsion stability without showing any sepn. in
     case of processed into emulsified compns. A hair bleach compn. contg.
     hydrogen peroxide 10, polyoxyethylene lanolin 1.5,
     polyoxyethylene lauryl ether sulfate sodium salt 2, cetyl alc.
     2, phosphonic acid 0.05, phenacetin 0.2, and water
     balance to 100 % was prepd.
             THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 4
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
     Disclosed are hair care compns. contg. hydrogen peroxide which are to be
AB
     used as hair bleachings, oxidative hair dyes, perming agents and so on.
     These compns. are characterized by contg. hydrogen peroxide together with
     polyoxyethylene lanolin, an oily component, a sequestrant and water. If
     desired, these compns. may further contain an anionic surfactant. These
     compns. exhibit excellent emulsion stability without showing any sepn. in
     case of processed into emulsified compns. A hair bleach compn. contg.
     hydrogen peroxide 10, polyoxyethylene lanolin 1.5,
     polyoxyethylene lauryl ether sulfate sodium salt 2, cetyl alc.
     2, phosphonic acid 0.05, phenacetin 0.2, and water
     balance to 100 % was prepd.
     9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt
IT
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
        (hair care compns. contg. hydrogen peroxide,
       polyoxyethylene lanolin oily component, sequestering agents, and
        anionic surfactants)
    ANSWER 2 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2003:133188 CAPLUS
ΑN
DN
     138:172784
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Synthesis of hydrogen peroxide from oxygen and hydrogen using a catalyst

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Paparatto, Giuseppe; De Alberti, Giordano; D'Aloisio, Rino; Buzzoni,
IN
     Roberto
     Eni S.p.A., Italy; Polimeri Europa S.p.A.
PΑ
     PCT Int. Appl., 31 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                           APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
                     ----
                                          -----
     -----
                     A2 20030220 WO 2002-EP8546 20020730
ΡI
     WO 2003014014
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
                            20010802
PRAI IT 2001-MI1688
                      Α
     A catalyst useful for the synthesis of hydrogen peroxide starting from
     hydrogen and oxygen consists of at least one metal of the platinum group
     as active component, a polyolefin, and a carrier. The catalyst contains
     0.05-2 wt.% of Pd, 0.005-0.5 wt.% of Pt with an at. ratio of Pt/Pd of
     (1-30)/(70-99), and optionally Ru, Rh, Ir, and Au. The polyolefins can be
     rubbers and copolymers of butadiene-styrene (synthetic rubber; GRS, SBR);
     ethylenepropylene (EPM, EPR) copolymers, ethylenepropylenediene copolymers
     (EPDM rubbers), styrene-butadiene-styrene (SBR thermoplastic rubbers);
     isobutylene isoprene rubber (butylrubbers). The carrier can be silica,
     alumina, silica-alumina, zeolites, and preferably activated carbon or
     activated carbon functionalized with sulfonic groups with a surface area
     of > 600 m^2/g. The catalyst is prepd. by dispersing the precursors of the
     single metal components on an inert carrier which can be pretreated with a
     polyolefin by pptn. or impregnation. The reaction solvent contains a
     halogenated promoter, such as HBr, NaBr, KBr, or NH4Br, and/or an acid
     promoter, such as sulfuric, phosphoric, nitric acid or sulfonic acids.
     The solvent consists of at least one alc. or a mixt. of alc.-water
     optionally contg. an aliph. ether and/or one or more C5-32 hydrocarbons.
     The alc. can be ethanol, tert. butanol, or preferably methanol. The ether
     is Me tert-Bu ether. The hydrocarbon is selected from paraffins, such as
     n-hexane, n-heptane, n-octane, and n-decane, cyclo-paraffinic
     hydrocarbons, such as cyclohexane, decalin, methylcyclohexane,
     ethylcyclohexane and dimethylcyclohexane, arom. hydrocarbons, such as
     benzene, naphthalene, toluene, xylenes, ethylbenzene, cumene, and
     alkylnaphthalenes. The reaction is carried out at 20-40.degree.C, 30-100
     bars, and in the presence of an inert gas, such as N2, He, or Ar. The
     produced hydrogen peroxide soln. can be directly used in an oxidn. process
     of a substrate, e.g. olefins, arom. hydrocarbons, ammonia, and carbonyl
     compds., catalyzed by titanium silicalite.
IT
     Sulfonic acids, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (acid promoter; synthesis of hydrogen peroxide from
        oxygen and hydrogen using catalyst)
     7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric
IT
                  7697-37-2, Nitric acid, uses
     acid, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (acid promoter; synthesis of hydrogen peroxide from
        oxygen and hydrogen using catalyst)
                                                          7440-44-0D, Carbon,
     1344-28-1, Alumina, uses 7440-44-0, Carbon, uses
ΙT
     functionalized with sulfonic groups
                                          7631-86-9, Silica, uses
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159995-97-8, Aluminum silicon oxide

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(catalyst support; synthesis of hydrogen peroxide
        from oxygen and hydrogen using catalyst)
    ANSWER 3 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    2003:334694 CAPLUS
AN
DN
     138:340423
    Direct synthesis of hydrogen peroxide and integration of the process into
ΤI
    oxidation processes
    Haas, Thomas; Stochniol, Guido; Rollmann, Jurgen
IN
PA
SO
    U.S. Pat. Appl. Publ., 6 pp.
     CODEN: USXXCO
DT
     Patent
    English
LA
FAN.CNT 1
                                     APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
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                                         -----
                                       US 2002-254746 20020925
    US 2003083510 A1 20030501
PΙ
    DE 10153546 A1 20030522 DE 2001-10153546 20011030 EP 1308416 A1 20030507 EP 2002-19947 20020905
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
PRAI DE 2001-10153546 A
                           20011030
    Aq.-org. or org. hydrogen peroxide solns. can be produced by direct
     synthesis in the presence of a catalyst fixed bed and an org. solvent.
     According to the invention, a non-explosive gas mixt. comprising H2 and O2
     is employed and a liq. reaction medium comprising org. solvent and bromide
     and/or iodide is passed over the fixed bed with a cross-section loading of
     at least 0.3 m/h. In the case of a trickle bed procedure with a
     cross-section loading of 0.3 m/h to 2 m/h, 4 to 10 wt.% methanolic H2O2
     solns. can be prepd. with a high productivity.
    Alkenes, processes
     Aromatic hydrocarbons, processes
       Sulfonic acids, processes
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (direct synthesis of hydrogen peroxide and
        integration of process into oxidn. processes)
     1333-74-0, Hydrogen, processes 7647-01-0, Hydrochloric acid, processes
IT
     7782-44-7, Oxygen, processes 13598-36-2, Phosphonic
           24959-67-9, Bromide, processes
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (direct synthesis of hydrogen peroxide and
        integration of process into oxidn. processes)
    ANSWER 4 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2003:172898 CAPLUS
AN
     138:209910
DN
     Method for simultaneous dyeing and permanent waving of hair
TI
     Schonert, Dieter; Schmidt-Hoerr, Anette; Lenz, Uwe
IN
     Wella Aktiengesellschaft, Germany
PA
     Eur. Pat. Appl., 12 pp.
SO
     CODEN: EPXXDW
DT
     Patent
    German
LA
FAN.CNT 1
    PATENT NO. KIND DATE
                                         APPLICATION NO. DATE
    EP 1287812 A2 20030305 EP 2002-13122 20020614
PΤ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    DE 10143293
                    A1
                           20030320
                                         DE 2001-10143293 20010904
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RL: CAT (Catalyst use); USES (Uses)

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20020718
                                          US 2002-198548
    US 2003084518
                           20030508
                      Α1
PRAI DE 2001-10143293 A
                           20010904
    MARPAT 138:209910
    The invention concerns the simultaneous dying and permanent waving of hair
AB
    by using two components that are mixed upon use; component (A) includes a
    keratin-reducing agent, component (B) contains oxidative precursor and
     coupling dyes; after the treatment with the mixt. an oxidative fixation
     agent is applied. The oxidative dyes are selected from the group of
    pyrazole derivs. and p-aminophenol derivs. Thus components included (g):
     (A) ammoniumthioglycolate (70% aq. soln.) 16.0; ammonia (25% aq. soln.)
     1.0; ammonium hydrogen carbonate 4.0; oxoethylated castor oil (35 mol EO)
     1.0; perfume oil 0.5; water to 100; (B) ammonium thioglycolate (70% aq.
     soln.) 10.00; oxoethylated castor oil (35 mol EO) 1.0;; sodium sulfite
     0.20; perfume oil 0.1; 3-aminophenol 0.10; amino-4-[(2-hydroxyethyl)amino]-
     anisole 0.04; resorcin 0.60; p-toluylenediamino sulfate 0.40;
     2-amino-5-methyl-phenol 0.03; 4-amino-3-methylphenol 0.50; ethanol 2.00;
    water to 100; oxidative fixation agent: hydrogen
    peroxide (50%) 4.00; salicylic acid 0.10; disodium hydrogen
    phosphate 0.20; o-phosphoric acid 0.15; oxoethylated
     castor oil (35 mol EO) 1.0; vinylpyrrolidone-styrene copolymer 0.10;
    perfume oil 0.10; water to 100.
    The invention concerns the simultaneous dying and permanent waving of hair
AΒ
    by using two components that are mixed upon use; component (A) includes a
     keratin-reducing agent, component (B) contains oxidative precursor and
     coupling dyes; after the treatment with the mixt. an oxidative fixation
     agent is applied. The oxidative dyes are selected from the group of
    pyrazole derivs. and p-aminophenol derivs. Thus components included (g):
     (A) ammoniumthioglycolate (70% ag. soln.) 16.0; ammonia (25% ag. soln.)
     1.0; ammonium hydrogen carbonate 4.0; oxoethylated castor oil (35 mol EO)
     1.0; perfume oil 0.5; water to 100; (B) ammonium thioglycolate (70% aq.
     soln.) 10.00; oxoethylated castor oil (35 mol EO) 1.0;; sodium sulfite
     0.20; perfume oil 0.1; 3-aminophenol 0.10; amino-4-[(2-hydroxyethyl)amino]-
     anisole 0.04; resorcin 0.60; p-toluylenediamino sulfate 0.40;
     2-amino-5-methyl-phenol 0.03; 4-amino-3-methylphenol 0.50; ethanol 2.00;
     water to 100; oxidative fixation agent: hydrogen
    peroxide (50%) 4.00; salicylic acid 0.10; disodium hydrogen
    phosphate 0.20; o-phosphoric acid 0.15; oxoethylated
    castor oil (35 mol EO) 1.0; vinylpyrrolidone-styrene copolymer 0.10;
    perfume oil 0.10; water to 100.
L3
    ANSWER 5 OF 158 CAPLUS COPYRIGHT 2003 ACS
    2003:40194 CAPLUS
AN
DN
     138:91852
     Two-agent type liquid bleaching compositions
TI
    Ozaki, Kazuyoshi; Maki, Masataka; Ogura, Nobuyuki; Muneo, Aoyagi
IN
PA
     Kao Corporation, Japan
SO
     Eur. Pat. Appl., 29 pp.
     CODEN: EPXXDW
DT
     Patent
LΑ
     English
FAN.CNT 1
                     KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
                           _____
                                          -----
     _____
                     _ _ _ _
    EP 1275708
                                        EP 2002-14962
                                                           20020709
                          20030115
PΙ
                     A1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                                          JP 2001-209555
                                                           20010710
     JP 2003020498
                     A2
                           20030124
                      A2
                           20030213
                                          JP 2001-231687
                                                           20010731
     JP 2003041295
                                                           20010731
                      A2
                                          JP 2001-231688
     JP 2003041296
                           20030213
                      Α
                                          CN 2002-140923
                                                           20020710
     CN 1396252
                           20030212
PRAI JP 2001-209555
                      Α
                           20010710
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Α

Α

20010731

20010731

JP 2001-231687

JP 2001-231688

OS

MARPAT 138:91852

To provide 2-agent type liq. bleaching compns. having excellent bleaching AB effect even if a mixing ratio of the 2 agents varies, great usability, and no problem in storage stability, 2-agent type liq. bleaching compns. contain an agent A and an agent B filled and held in sep. chambers of a container and the agent A is made of 0.1-10% H2O2 and H2O provided with certain buffering capacity, and the agent B is made of an alkali agent and H2O provided with certain buffering capacity. Agent A and agent B meet the following conditions, resp. : (I) pH of agent A 1-6.5 at 20.degree. and a vol. of aq. 0.1N NaOH soln. required to adjust 1000 mL agent A to pH 7 at 20.degree. is 50-1000 mL and (II) pH of agent B 9-12 at 20.degree. and a vol. of aq. 1N H2SO4 soln. required to adjust 1000 mL agent B to pH 7 at 20.degree. is 450-2000 mL. Thus, an alk. (pH 10.5) bleaching detergent contained 2/1 ratio A/B of hydrogen peroxide 5, citric acid 1.5, polyoxyethylene lauryl ether 2, ethylene oxide-propylene oxide copolymer monolauryl ether 30, LAS 1, sodium salt of polyoxyethylene lauryl ether sulfate 2, alkyl (C12-15) benzenesulfonic acid sodium salt, 0.5, N-tetradecyl-N,N,Ntrimethylammonium chloride 1, p-methoxyphenol 0.3, N-lauryl-N,N-dimethyl-N-(2-hydroxy-1-sulfopropyl) ammonium sulfobetaine 1, lauroyloxybenzenesulfonic acid sodium salt 1 parts, and the balance H2O, in combination with KCO3 6, NaHCO3 0.3, above sulfobetaine 4, LAS 3 parts, and the balance H2O, showing 86% bleaching efficiency (reflectance). THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 9 ALL CITATIONS AVAILABLE IN THE RE FORMAT To provide 2-agent type liq. bleaching compns. having excellent bleaching AB effect even if a mixing ratio of the 2 agents varies, great usability, and no problem in storage stability, 2-agent type liq. bleaching compns. contain an agent A and an agent B filled and held in sep. chambers of a container and the agent A is made of 0.1-10% H2O2 and H2O provided with certain buffering capacity, and the agent B is made of an alkali agent and H2O provided with certain buffering capacity. Agent A and agent B meet the following conditions, resp. : (I) pH of agent A 1-6.5 at 20.degree. and a vol. of aq. 0.1N NaOH soln. required to adjust 1000 mL agent A to pH 7 at 20.degree. is 50-1000 mL and (II) pH of agent B 9-12 at 20.degree. and a vol. of aq. 1N H2SO4 soln. required to adjust 1000 mL agent B to pH 7 at 20.degree. is 450-2000 mL. Thus, an alk. (pH 10.5) bleaching detergent contained 2/1 ratio A/B of hydrogen peroxide 5, citric acid 1.5, polyoxyethylene lauryl ether 2, ethylene oxide-propylene oxide copolymer monolauryl ether 30, LAS 1, sodium salt of polyoxyethylene lauryl ether sulfate 2, alkyl (C12-15) benzenesulfonic acid sodium salt, 0.5, N-tetradecyl-N,N,Ntrimethylammonium chloride 1, p-methoxyphenol 0.3, N-lauryl-N,N-dimethyl-N-(2-hydroxy-1-sulfopropyl) ammonium sulfobetaine 1, lauroyloxybenzenesulfonic acid sodium salt 1 parts, and the balance H2O, in combination with KCO3 6, NaHCO3 0.3, above sulfobetaine 4, LAS 3 parts, and the balance H2O, showing 86% bleaching efficiency (reflectance). 77-92-9, Citric acid, 60-00-4, Ethylenediaminetetraacetic acid, uses IT 111-42-2, Diethanolamine, uses 102-71-6, Triethanolamine, uses 141-43-5, Monoethanolamine, uses 144-55-8, Sodium hydrogen carbonate, 497-19-8, Sodium carbonate, uses 515-42-4D, Benzenesulfonic acid sodium salt, C12-15 alkyl derivs. 584-08-7, Potassium carbonate 657-84-1, p-Toluenesulfonic acid sodium salt 1310-58-3, Potassium 1310-73-2, Sodium hydroxide, uses 1330-43-4, Sodium hydroxide, uses 1643-20-5, Lauryldimethylamine oxide 2809-21-4, tetraborate 1-Hydroxyethylidene-1,1-diphosphonic acid 4574-04-3 7558-79-4, Disodium phosphate 7601-54-9, Trisodium phosphate 4615-13-8 7722-84-1, Hydrogen peroxide, uses 7664-38-2, Orthophosphoric acid, uses 9002-92-0, Polyoxyethylene lauryl ether 9003-04-7, Polyacrylic acid 9004-82-4, Sodium polyoxyethylene lauryl ether sodium salt 13197-76-7 37311-00-5, Ethylene oxide-propylene oxide sulfate 88380-00-1, Lauroyloxybenzenesulfonic acid copolymer monolauryl ether sodium salt RL: TEM (Technical or engineered material use); USES (Uses)

(two-agent-type liq. bleaching compns. contg. acidic hydrogen

peroxide soln. combination with alkali soln. for laundering of fabrics)

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ANSWER 6 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
     2003:4757 CAPLUS
DN
     138:44447
     Hair bleaching agents containing ubiquinones
TI
     Noecker, Bernd; Wilz, Ruediger; Ghiasi, Fariba; Garbe, Barbara
IN
PA
     Goldwell G.m.b.H., Germany
     Eur. Pat. Appl., 8 pp.
SO
     CODEN: EPXXDW
DT
     Patent
     German
LA
FAN.CNT 1
                                        APPLICATION NO. DATE
                   KIND DATE
     PATENT NO.
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                                         -----
                                        EP 2002-14196 20020626
     EP 1269976 A2 20030102
     EP 1269976
                     A3 20030423
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                         DE 2001-10131540 20010629
                     A1 20030116
                           20010629
PRAI DE 2001-10131540 A
     MARPAT 138:44447
     The invention concerns hair bleaching agents that contain ubiquinones and
AB
     bleaching agents; bleaching agents are peroxides and ammonium salts. Thus
     a two component bleaching agent was composed of a bleaching powder and
     hydrogen peroxide lotion. The bleaching powder included (wt./wt.%):
     silica 16.27; ammonium chloride 14.70; sodium carbonate 10.00; sodium
     silicate 2.30; phthalimidoperoxyhexanoic acid 41.50; sodium persulfate
     15.20; Coenzyme Q6 0.03. The hydrogen peroxide lotion
     contained (wt./wt.%): hydrogen peroxide 6.00;
     cetylstearylalc. 1.70; phosphoric acid 0.50; sodium
     lauryl sulfate 0.20; Coenzyme Q6 0.05; disodium hydrogen
     phosphate 0.10; salicylic acid 0.10; water to 100.00.
     The invention concerns hair bleaching agents that contain ubiquinones and
AΒ
     bleaching agents; bleaching agents are peroxides and ammonium salts. Thus
     a two component bleaching agent was composed of a bleaching powder and
     hydrogen peroxide lotion. The bleaching powder included (wt./wt.%):
     silica 16.27; ammonium chloride 14.70; sodium carbonate 10.00; sodium
     silicate 2.30; phthalimidoperoxyhexanoic acid 41.50; sodium persulfate
     15.20; Coenzyme Q6 0.03. The hydrogen peroxide lotion
     contained (wt./wt.%): hydrogen peroxide 6.00;
     cetylstearylalc. 1.70; phosphoric acid 0.50; sodium
     lauryl sulfate 0.20; Coenzyme Q6 0.05; disodium hydrogen
     phosphate 0.10; salicylic acid 0.10; water to 100.00.
     ANSWER 7 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     2003-248242 [24]
                       WPTDS
AN
                       DNC C2003-064090
    N2003-197191
DNN
     Disinfecting and cleaning system for medical device, e.g. contact lens,
ΤI
     comprises first composition containing peroxidase enzyme and iodide salt,
     and second composition containing hydrogen peroxide source in aqueous
     solution.
     D22 E19 P34
DC
     MOWREY-MCKEE, M F; SILLS, M A
TN
     (NOVS) NOVARTIS AG; (NOVS) NOVARTIS PHARMA GMBH
PA
CYC
     WO 2003013621 A1 20030220 (200324)* EN
PΙ
                                             28p
        RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GR IE IT LU MC NL PT SE
        W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH HR HU ID IL IN IS JP KE KG KP KR KZ
           LC LK LT LU LV MA MD MK MN MX NO NZ OM PH PL PT RO RU SE SG SI SK
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TJ TM TN TR TT UA US UZ VC VN YU ZA ZW

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ADT WO 2003013621 A1 WO 2002-EP8839 20020807
PRAI US 2001-310893P 20010808
     WO2003013621 A UPAB: 20030410
     NOVELTY - A disinfecting and cleaning system consists of a first
     composition containing peroxidase enzyme and iodide salt, and a second
     composition containing hydrogen peroxide source in an aqueous solution.
           DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method
     of disinfecting a medical device by combining first and second
     compositions to provide an activated disinfecting solution, and contacting
     the medical device with the disinfecting solution for a predetermined
           USE - For disinfecting and cleaning medical device, e.g. contact lens
     (claimed).
           ADVANTAGE - The inventive disinfecting and cleaning system is
     compatible with most types of contact lenses while maintaining both high
     level of antibacterial activity and low order of toxicity to eye tissue.
     It is effective against wide spectrum of microorganisms including
     Staphylococcus aureus, Pseudomonas aeruginosa, Serratia marcescens,
     Candida albicans and Fusarium solani. Contact lenses treated with the
     inventive system were non-irritating, even when they were not rinsed after
     disinfection and prior to insertion into the eye.
     Dwq.0/0
TECH.
     amino acid, sodium sulfite, sodium hydrogen sulfite, sodium thiosulfate,
     or imidazole. The buffering agent is acetate, phosphate, borate, citrate,
     nitrate, sulfate, tartrate, lactate, carbonate, bicarbonate,
     TRIS, BIS-TRIS propane, and/or Goode buffer.
     The hydrogen peroxide stabilizer is a compound of
     formula (H2PO3-X)2N-(X-N(XPO3H2))z-(XPO3H2) (I) or its water-soluble salt
     or a compound of formula (II) or its water-soluble salt:
     X = 1-4C alkylene;
     z = 0-3;
     n, m, p, q = 0-4.
     The hydrogen peroxide stabilizer is diethylene
     triamine penta (methylene-phosphonic acid) or its
     water-soluble salt.
     TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Component: The hydrogen
     peroxide source is hydrogen peroxide, sodium.
     ANSWER 8 OF 158 CAPLUS COPYRIGHT 2003 ACS
                                                            DUPLICATE 1
L3
AN
     2002:31372 CAPLUS
DN
     136:73513
     Magnesia foam panels containing naphthalene sulfonate and
ΤI
     hydrogen peroxide for boat compartment and cabin walls
     Vaghini, Alberto; Di Maggio, Rosa
IN
PA
     Italy
     PCT Int. Appl., 21 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                               APPLICATION NO. DATE
     PATENT NO.
                      KIND DATE
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     WO 2002002477
                       A1 20020110
                                              WO 2001-IB1591 20010702
PI
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
              RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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20020114 AU 2001-82396 20010702 AU 2001082396 Α5 PRAI IT 2000-PC25 20000703 Α WO 2001-IB1591 W 20010702 Magnesia foam panels for use in making cabins and compartments for boats AΒ and the like comprise at least one layer of magnesia foam. The panels consist of one layer of material contg. 100 parts MgO, 90 parts compd. B, 0.1-3 % naphthalene sulfonate and 0-20 parts H202 with compd. B comprising 50 parts H2O, 50 parts MgCl2 and H3PO4 0.5%. THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 11 ALL CITATIONS AVAILABLE IN THE RE FORMAT Magnesia foam panels containing naphthalene sulfonate and TIhydrogen peroxide for boat compartment and cabin walls Magnesia foam panels for use in making cabins and compartments for boats AB and the like comprise at least one layer of magnesia foam. The panels consist of one layer of material contg. 100 parts MgO, 90 parts compd. B, 0.1-3 % naphthalene sulfonate and 0-20 parts H202 with compd. B comprising 50 parts H2O, 50 parts MgCl2 and H3PO4 0.5%. ST magnesia naphthalene sulfonate hydrogen peroxide foaming agent panel; strength elasticity magnesia naphthalene sulfonate hydrogen peroxide foam panel; magnesium chloride phosphoric acid magnesia hydrogen peroxide foam panel IT (boats; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) Controlled atmospheres TT (carbon dioxide steam-curing; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) IT (filler; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) Thermal insulators IT (foamed magnesia panels; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) IT Foaming agents Strength Young's modulus (magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) IT (magnesia; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) Balloons ITMicrospheres (microballoons, silica; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) Construction materials ΙT (panels; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) Hydration, chemical IT (steam curing; magnesia foam panels contg. naphthalene sulfonate and hydrogen peroxide for boat compartment and cabin walls) 9003-53-6, Polystyrene IT RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)

```
(foam, filler; magnesia foam panels contg. naphthalene
         sulfonate and hydrogen peroxide for boat
         compartment and cabin walls)
     1309-48-4, Magnesium oxide (MgO), processes
TΤ
     RL: PEP (Physical, engineering or chemical process); PYP (Physical
     process); TEM (Technical or engineered material use); PROC (Process); USES
      (Uses)
         (foamed panels; magnesia foam panels contg. naphthalene
         sulfonate and hydrogen peroxide for boat
         compartment and cabin walls)
     7722-84-1, Hydrogen peroxide (H2O2),
IT
     processes
     RL: PEP (Physical, engineering or chemical process); PYP (Physical
     process); PROC (Process)
         (foaming agents; magnesia foam panels contg. naphthalene
         sulfonate and hydrogen peroxide for boat
         compartment and cabin walls)
     1309-42-8, Magnesium hydroxide
TT
     RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
     process); PYP (Physical process); FORM (Formation, nonpreparative); PROC
      (Process)
         (in foamed panels; magnesia foam panels contg. naphthalene
         sulfonate and hydrogen peroxide for boat
         compartment and cabin walls)
                                                  7786-30-3,
     7664-38-2, Phosphoric acid, processes
IT
     Magnesium chloride (MgCl2), processes
                                                  50852-11-4, Naphthalene
     sulfonate
     RL: PEP (Physical, engineering or chemical process); PYP (Physical
     process); PROC (Process)
         (in foamed panels; magnesia foam panels contg. naphthalene
         sulfonate and hydrogen peroxide for boat
        compartment and cabin walls)
     373643-90-4D, Magnesium carbonate chloride hydroxide (Mg2(CO3)Cl(OH)),
IT
     hydrate
     RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical
     process); PRP (Properties); PYP (Physical process); FORM (Formation,
     nonpreparative); PROC (Process)
         (strengthening agent; magnesia foam panels contg. naphthalene
        sulfonate and hydrogen peroxide for boat
        compartment and cabin walls)
     ANSWER 9 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2002:868698 CAPLUS
AN
DN
     137:357893
     Method and compositions for coloring hair using hydrogen peroxide-based
TI
     developers
     Duffer, Dalal Ibrahim Esber; Vena, Louann C.; Tian, Minmin; Singh,
IN
     Shailendra K.
PΔ
     Revlon Consumer Products Corporation, USA
     PCT Int. Appl., 33 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                                                APPLICATION NO.
                                                                  DATE
                        KIND DATE
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                       A2
A3
                                               WO 2002-US14760 20020509
     WO 2002089748
                               20021114
PI
     WO 2002089748
                             20030227
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                          US 2001-852982
                                                            20010510
     US 2003028979
                      A1
                            20030213
PRAI US 2001-852982
                      Α
                            20010510
    An ag. compn. for oxidatively coloring hair in 12 min or less is prepd. by
     combining a dye mixt. and a developer mixt. The compn. comprises (i)
     0.01-2.0% (combined wt.) of primary intermediates and couplers, (ii) a
     free alky. concn. of 0.20-0.75 meq/g, and (iii) a hydrogen peroxide concn.
     of 4-6% by wt. A hair coloring kit contg. sep. containers of an aq. dye
     mixt. and an aq. developing mixt. is also described. For example, a hair
     dye mixt. in the level 5, medium brown, shade was prepd. contg. (by wt.)
     p-phenylenediamine 0.63% (primary intermediate), N,N-bis(2-hydroxyethyl)-p-
     phenylenediamine sulfate 0.11 (primary intermediate), resorcinol 0.50
     (coupler), 1-naphthol 0.04 (coupler), m-aminophenol 0.07 (coupler),
     ethanolamine 3.00 (alkalizing agent), ammonium hydroxide (27.5%) 9.00
     (alkalizing agent), oleic acid 12.50, erythorbic acid 0.20 (antioxidant),
     sodium sulfite 0.50 (antioxidant), ethoxydiglycol 5.00 (solvent), Hypnea
     musciformis ext., Gellidiela acerosa ext., Sargassum filipendula ext., and
     sorbitol 0.80 (conditioner), Oleth-20 1.00, Steareth-21 0.70, emulsifying
     wax 2.00, meadowfoam seed oil 0.75 (conditioner), Polyquaternium-10 0.20
     (conditioner), Polyquaternium-28 0.50 (conditioner), hydrolyzed wheat
     protein 0.50 (conditioner), oleyl alc. 0.40 (conditioner, thickener),
     cetearyl alc. 4.00 (thickener), tetrasodium EDTA (38%) 0.80 (chelating
     agent), ammonium lauryl sulfate (28%) 2.00, mica, titanium dioxide (67:33)
     0.30, sodium benzotriaolyl butylphenol sulfonate buteth-3, tri-Bu citrate
     0.50 (UV absorber), fragrance 1.25%, and water 52.75%. A developer compn.
     contained (by wt.) water 69.72%, methylparaben 0.05%, EDTA 0.02%, mineral
     oil 0.60%, cetearyl alc./ceteareth-20 (80:20) 3.75%, cetearyl alc. 0.80%,
     ceteareth-20 0.40%, cyclomethicone/trimethylsiloxysilicate (50:50) 0.01%,
     trimethylsilylamodimethicone, C11-15 pareth-7 C12-16 pareth 9,
     trideceth-12, glycerin, water (20:6:4:2:3:65) 2.00%, disodium phosphate
     0.03%, phosphoric acid 0.02%, hydrogen
     peroxide (35%) 22.50%, and Steareth-10 allyl ether/acrylates
     copolymer 0.10%. Groups of 95% gray hair swatches were colored with a
     coloring compn. prepd. by mixing 1 part of the dye compn. and 1.5 parts of
     the developer compn. The coloring process was interrupted at 2, 5, 10,
     20, and 30 min. The coloring compn. was capable of depositing more color
     on the hair in a faster time than com. products.
     An aq. compn. for oxidatively coloring hair in 12 min or less is prepd. by
AB
     combining a dye mixt. and a developer mixt. The compn. comprises (i)
     0.01-2.0% (combined wt.) of primary intermediates and couplers, (ii) a
     free alky. concn. of 0.20-0.75 meq/g, and (iii) a hydrogen peroxide concn.
     of 4-6% by wt. A hair coloring kit contg. sep. containers of an aq. dye
     mixt. and an aq. developing mixt. is also described. For example, a hair
     dye mixt. in the level 5, medium brown, shade was prepd. contg. (by wt.)
     p-phenylenediamine 0.63% (primary intermediate), N,N-bis(2-hydroxyethyl)-p-
     phenylenediamine sulfate 0.11 (primary intermediate), resorcinol 0.50
     (coupler), 1-naphthol 0.04 (coupler), m-aminophenol 0.07 (coupler),
     ethanolamine 3.00 (alkalizing agent), ammonium hydroxide (27.5%) 9.00
     (alkalizing agent), oleic acid 12.50, erythorbic acid 0.20 (antioxidant),
     sodium sulfite 0.50 (antioxidant), ethoxydiglycol 5.00 (solvent), Hypnea
     musciformis ext., Gellidiela acerosa ext., Sargassum filipendula ext., and
     sorbitol 0.80 (conditioner), Oleth-20 1.00, Steareth-21 0.70, emulsifying
     wax 2.00, meadowfoam seed oil 0.75 (conditioner), Polyquaternium-10 0.20
     (conditioner), Polyquaternium-28 0.50 (conditioner), hydrolyzed wheat
     protein 0.50 (conditioner), oleyl alc. 0.40 (conditioner, thickener),
     cetearyl alc. 4.00 (thickener), tetrasodium EDTA (38%) 0.80 (chelating
     agent), ammonium lauryl sulfate (28%) 2.00, mica, titanium dioxide (67:33)
     0.30, sodium benzotriaolyl butylphenol sulfonate buteth-3, tri-Bu citrate
     0.50 (UV absorber), fragrance 1.25%, and water 52.75%. A developer compn.
     contained (by wt.) water 69.72%, methylparaben 0.05%, EDTA 0.02%, mineral
     oil 0.60%, cetearyl alc./ceteareth-20 (80:20) 3.75%, cetearyl alc. 0.80%,
     ceteareth-20 0.40%, cyclomethicone/trimethylsiloxysilicate (50:50) 0.01%,
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trimethylsilylamodimethicone, C11-15 pareth-7 C12-16 pareth 9, trideceth-12, glycerin, water (20:6:4:2:3:65) 2.00%, disodium phosphate 0.03%, phosphoric acid 0.02%, hydrogen peroxide (35%) 22.50%, and Steareth-10 allyl ether/acrylates copolymer 0.10%. Groups of 95% gray hair swatches were colored with a coloring compn. prepd. by mixing 1 part of the dye compn. and 1.5 parts of the developer compn. The coloring process was interrupted at 2, 5, 10, 20, and 30 min. The coloring compn. was capable of depositing more color on the hair in a faster time than com. products. 90-15-3, 1-Naphthol 106-50-3, p-Phenylenediamine, biological studies 141-43-5, Ethanolamine, 108-46-3, Resorcinol, biological studies biological studies 591-27-5, m-Aminophenol 1336-21-6, Ammonium 7722-84-1, Hydrogen peroxide, biological studies 54381-16-7, N, N-Bis (2-hydroxyethyl) -p-phenylenediamine sulfate RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (ag. hair coloring compn. contg. primary intermediates, couplers, alkalizing agents, and hydrogen peroxide) ANSWER 10 OF 158 CAPLUS COPYRIGHT 2003 ACS 2002:216240 CAPLUS 136:249443 Thickened liquid bleaching detergent compositions with good bleaching Maki, Masataka; Ozaki, Kazuyoshi; Aoyagi, Muneo Kao Corp., Japan Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF Patent Japanese FAN.CNT 1 APPLICATION NO. DATE KIND DATE ----------JP 2002080895 A2 20020322 JP 2000-268465 20000905 PRAI JP 2000-268465 20000905 The compn. comprises (a) hydrogen peroxide, (b) 0.1-10% compd. having .gtoreq.1 C8-20 alkyl or alkenyl, .gtoreq.1 polyoxy(C2-4 alkylene) chain, and wt. av. mol. wt. 2500-50,000, and (c) 0.01-10% poly(C2-4 alkylene glycol), wherein the ratio of c to b is 0.001-10. Thus a bleaching detergent comprising H2O2 2, Emulgen 2200 (polyoxyethylene cetyl ether) 2, polyethylene glycol 1, C12H25O(C2H4O)6H 5, N-tetradecyl -N,Ndimethylammonium Me sulfate 0.5, Sodium 4-(dodecanoyloxy) benzenesulfonate 0.5, Dequest 2010 (acetodiphosphonic acid) 0.4 parts and water balanced showed viscosity (at 20.degree.) 25 mPa-s and good bleachability. The compn. comprises (a) hydrogen peroxide, (b) 0.1-10% compd. having

.gtoreq.1 C8-20 alkyl or alkenyl, .gtoreq.1 polyoxy(C2-4 alkylene) chain, and wt. av. mol. wt. 2500-50,000, and (c) 0.01-10% poly(C2-4 alkylene glycol), wherein the ratio of c to b is 0.001-10. Thus a bleaching detergent comprising H2O2 2, Emulgen 2200 (polyoxyethylene cetyl ether) 2, polyethylene glycol 1, C12H25O(C2H4O)6H 5, N-tetradecyl -N,Ndimethylammonium Me sulfate 0.5, Sodium 4-(dodecanoyloxy) benzenesulfonate 0.5, Dequest 2010

(acetodiphosphonic acid) 0.4 parts and water balanced showed viscosity (at 20.degree.) 25 mPa-s and good bleachability.

- ANSWER 11 OF 158 CAPLUS COPYRIGHT 2003 ACS T.3
- 2002:885993 CAPLUS AN
- DN 137:371758

L3  $\mathbf{A}\mathbf{N}$ 

DN

TI

ΙN PΑ

SO

DT

LA

- Process for manufacturing granules of stable adducts of sodium sulphate, TIhydrogen peroxide and sodium chloride as whiteners in detergents
- Forner, Benito Juan; Artigas, Puerto Ramon IN
- PΑ FMC Foret S.A., Spain
- Eur. Pat. Appl., 8 pp. SO CODEN: EPXXDW

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DT
    Patent
LA
    English
FAN.CNT 1
                                   APPLICATION NO. DATE
                  KIND DATE
    EP 1258454 A1 20021120 EP 2001-500122 20010517
PΙ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRAI EP 2001-500122
                           20010517
    The process comprises directly granulating an intimate mixt. of Na2SO4 and
    NaCl having a grain size .ltoreq.100 .mu.m with H202; or directly
    granulating Na2SO4 with grain size .ltoreq.100 .mu.m by means of spraying
    with a soln. of NaCl in H2O2; or directly granulating a blend formed by
    adding NaCl (solid or in soln.) to a paste contg. Na2SO4 and H2O2. The
    granulated adduct 4Na2SO4.2H2O2.NaCl is intrinsically stable and, once
    dry, only contains .ltoreq.4.6 % active oxygen.
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    sodium sulfate hydrogen peroxide adduct
ST
    granule manuf; detergent whitener sodium chloride granule stability
IT
        (powd.; process for manufg. granules of stable adducts of sodium
       sulfate, hydrogen peroxide and sodium
       chloride as whiteners in detergents)
IT
    Stabilizing agents
    Whitening agents
        (process for manufg. granules of stable adducts of sodium
       sulfate, hydrogen peroxide and sodium
       chloride as whiteners in detergents)
TT
    7722-84-1, Hydrogen peroxide, uses
                                        13759-07-4,
    Thenardite 14762-51-7, Halite
    RL: PEP (Physical, engineering or chemical process); PYP (Physical
    process); TEM (Technical or engineered material use); PROC (Process); USES
     (Uses)
        (process for manufg. granules of stable adducts of sodium
       sulfate, hydrogen peroxide and sodium
       chloride as whiteners in detergents)
                                        12058-66-1, Sodium stannate
    7487-88-9, Magnesium sulfate, uses
TT
    15827-60-8, Dequest 2060
    RL: TEM (Technical or engineered material use); USES (Uses)
        (stabilizer; process for manufg. granules of stable adducts of sodium
       sulfate, hydrogen peroxide and sodium
       chloride as whiteners in detergents)
    ANSWER 12 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    2002:503326 CAPLUS
AN
DN
    Hair bleach composition and hair dye composition
ΤI
    Matsuo, Takashi; Miyabe, Hajime; Shibata, Yutaka; Ito, Yoshiaki; Monda,
IN
    Keiji; Misu, Daisuke
    Kao Corporation, Japan
PΑ
SO
    Eur. Pat. Appl., 18 pp.
    CODEN: EPXXDW
DT
    Patent
    English
FAN.CNT 1
    PATENT NO.
                   KIND DATE
                                         APPLICATION NO. DATE
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                                        EP 2001-130241 20011219
                    A2 20020703
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    JP 2002193773 A2 20020710
                                       JP 2000-400808
                                                          20001228
                                         JP 2000-400875
                                                          20001228
    JP 2002193774
                     A2
                           20020710
                                         JP 2000-400876 20001228
                    A2
                           20020710
    JP 2002193770
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A2
                           20020710
                                          JP 2000-400877
     JP 2002193771
                                                           20001228
     JP 2002201118
                     A2
                           20020716
                                          JP 2000-402454
                     A2
                           20020814
                                          JP 2001-27704
                                                           20010205
     JP 2002226340
                                                           20010306
                                          JP 2001-61696
     JP 2002265338
                     A2
                           20020918
                                          US 2001-25762
                                                           20011226
                      A1
                           20021003
     US 2002139957
                      Α
                           20001228
PRAI JP 2000-400808
     JP 2000-400875 A
                           20001228
                     Α
     JP 2000-400876
                           20001228
                     Α
                           20001228
     JP 2000-400877
                     Α
                           20001228
     JP 2000-402454
     JP 2001-27704
                      Α
                            20010205
                      Α
                            20010306
     JP 2001-61696
     A hair bleach or dye compn. is described which, during use, includes a
AB
     mixt. of a first compn. contg. an alkali agent and a second compn. contg.
     an oxidizing agent. The compn. contains (A) an org. solvent having a
     partition coeff. log P in octanol-water at 25.degree. of 0.3-6 and a mol.
     wt. of 200 or less, in an amt. of 1-70 wt.%; (B) an org. solvent having a
     log P of less than 0.3, in an amt. of 0-8 wt.% and less than that of
     component (A); (C) an alkali agent, e.g., ammonia, in an amt. of 0.1-10
     wt.%; (D) an oxidizing agent in an amt. of 0.1-12 wt.% as reduced to H2O2;
     (E) water in an amt. of 20-70 wt.%, and further may contain (F) a cationic
     surfactant in an amt. of 0.01-10 wt.%. A hair dye compn. further
     comprises (G) an oxidn.-type dye intermediate or (H) a direct dye.
     compn. has a pH of 7.5-12 after mixing of the first compn. and the second
     compn. The bleach or dye compn. provides less offensive odor, exhibit
     excellent hair-bleaching power and hair-dyeing power, and exhibit
     excellent hair-conditioning effect during and after treatment. For
     example, an oxidn.-type hair bleach compn. was prepd. contg. (by wt.)
     first compn. - 2-benzyloxyethanol 10%, ethanol 3%, monoethanolamine 6%,
     oleyl alc. 2%, polyoxyethylene (20) octyl dodecyl ether 18%,
     polyoxyethylene (9) oleyl ether 6%, polyoxyethylene (3) tridecyl ether
     15%, polyethylene glycol 400 8%, liq. paraffin 6%, perfume 0.4%, and water
     25.6%; and second compn. - 35% aq. hydrogen peroxide
     17%, polyoxyethylene (9) oleyl ether 25%, oleyl alc. 15%, 8-quinolinol
     sulfate 0.04%, 75% phosphoric acid 0.02%, and
     water 42.94%. The first compn. and the second compn. were mixed at a
     ratio of 1:1.5 (by wt.), to thereby prep. a hair bleach compn. When used,
     the compn. provided a weak offensive odor and excellent bleach power.
     A hair bleach or dye compn. is described which, during use, includes a
AB
     mixt. of a first compn. contg. an alkali agent and a second compn. contg.
     an oxidizing agent. The compn. contains (A) an org. solvent having a
     partition coeff. log P in octanol-water at 25.degree. of 0.3-6 and a mol.
     wt. of 200 or less, in an amt. of 1-70 wt.%; (B) an org. solvent having a
     log P of less than 0.3, in an amt. of 0-8 wt.% and less than that of
     component (A); (C) an alkali agent, e.g., ammonia, in an amt. of 0.1-10
     wt.%; (D) an oxidizing agent in an amt. of 0.1-12 wt.% as reduced to H2O2;
     (E) water in an amt. of 20-70 wt.%, and further may contain (F) a cationic
     surfactant in an amt. of 0.01-10 wt.%. A hair dye compn. further
     comprises (G) an oxidn.-type dye intermediate or (H) a direct dye.
     compn. has a pH of 7.5-12 after mixing of the first compn. and the second
            The bleach or dye compn. provides less offensive odor, exhibit
     excellent hair-bleaching power and hair-dyeing power, and exhibit
     excellent hair-conditioning effect during and after treatment. For
     example, an oxidn.-type hair bleach compn. was prepd. contg. (by wt.)
     first compn. - 2-benzyloxyethanol 10%, ethanol 3%, monoethanolamine 6%,
     oleyl alc. 2%, polyoxyethylene (20) octyl dodecyl ether 18%,
     polyoxyethylene (9) oleyl ether 6%, polyoxyethylene (3) tridecyl ether
     15%, polyethylene glycol 400 8%, liq. paraffin 6%, perfume 0.4%, and water
     25.6%; and second compn. - 35% aq. hydrogen peroxide
     17%, polyoxyethylene (9) oleyl ether 25%, oleyl alc. 15%, 8-quinolinol
     sulfate 0.04%, 75% phosphoric acid 0.02%, and
     water 42.94%. The first compn. and the second compn. were mixed at a
     ratio of 1:1.5 (by wt.), to thereby prep. a hair bleach compn. When used,
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the compn. provided a weak offensive odor and excellent bleach power.

20001228

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L3
    ANSWER 13 OF 158 CAPLUS COPYRIGHT 2003 ACS
AN
    2002:961452 CAPLUS
DN
    138:16454
    Hair bleaches containing ubiquinones
TI
PΑ
    Goldwell GmbH, Germany
SO
    Ger. Gebrauchsmusterschrift, 13 pp.
    CODEN: GGXXFR
DT
    Patent
LA
    German
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
                                        ______
     -----
    DE 20110784 U1 20021219
                                       DE 2001-20110784 20010629
ΡI
PRAI DE 2001-20110784 20010629
    MARPAT 138:16454
OS
    The invention concerns hair bleaches that contain ubiquinones, peroxides
AB
    and ammonium compds. Thus a hair bleach contained a bleaching powder, a
    hydrogen peroxide lotion and a cream base; they were mixed at a ratio of
     1:2.5:2.5. The bleaching powder was composed of (wt./wt.%): silica 16.27;
    ammonium chloride 14.70; sodium carbonate 10.00; sodiummetasilicate 2.30;
    phthalimidoperhexanoic acid 41.50; sodium persulfate 15.20; Coenzyme Q6
     0.03. The hydrogen peroxide lotion contained
     (wt./wt.%): hydrogen peroxide 6.00; cetylstearyl alc.
     1.70; phosphoric acid 0.50; sodium lauryl
     sulfate 0.20; Coenzyme Q6 0.05; disodium hydrogen phosphate 0.10;
    salicylic acid 0.10; water to 100. The cream base included (wt./wt.%):
    cetylstearylalc. 11.0; Oleth-5 5.0; oleic acid 2.5; stearamide MEA 2.3;
    cocoamide MEA 2.3; sodium cetyl stearyl sulfate 1.2; 1,2-propyleneglycol
    1.0; 1,2-propyleneglycol stearate 0.6; sodium lauryl sulfate 0.5; wheat
    protein hydrolyzate 0.9; organopolysiloxane 0.4; panthenol 0.6; perfume
    0.4; complexing agent 0.2; water to 100.
    The invention concerns hair bleaches that contain ubiquinones, peroxides
AB
    and ammonium compds. Thus a hair bleach contained a bleaching powder, a
    hydrogen peroxide lotion and a cream base; they were mixed at a ratio of
     1:2.5:2.5. The bleaching powder was composed of (wt./wt.%): silica 16.27;
    ammonium chloride 14.70; sodium carbonate 10.00; sodiummetasilicate 2.30;
    phthalimidoperhexanoic acid 41.50; sodium persulfate 15.20; Coenzyme Q6
    0.03. The hydrogen peroxide lotion contained
     (wt./wt.%): hydrogen peroxide 6.00; cetylstearyl alc.
     1.70; phosphoric acid 0.50; sodium lauryl
     sulfate 0.20; Coenzyme Q6 0.05; disodium hydrogen phosphate 0.10;
    salicylic acid 0.10; water to 100. The cream base included (wt./wt.%):
    cetylstearylalc. 11.0; Oleth-5 5.0; oleic acid 2.5; stearamide MEA 2.3;
    cocoamide MEA 2.3; sodium cetyl stearyl sulfate 1.2; 1,2-propyleneglycol
    1.0; 1,2-propyleneglycol stearate 0.6; sodium lauryl sulfate 0.5; wheat
    protein hydrolyzate 0.9; organopolysiloxane 0.4; panthenol 0.6; perfume
    0.4; complexing agent 0.2; water to 100.
    ANSWER 14 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    2002:66696 CAPLUS
DN
    136:120256
    Storage-stable aqueous bleaching composition
TI
    Cruz, Mercedes Mendoza; Pons, Jaume Josa; Catalina, Adolf Arranz
IN
PA
    Henkel KGaA, Germany
SO
    Ger. Offen., 8 pp.
    CODEN: GWXXBX
DT
    Patent
LA
    German
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
   DE 10032589 A1 20020124
                                        _____
                                       DE 2000-10032589 20000707
PRAI DE 2000-10032589 20000707
```

```
MARPAT 136:120256
OS
     The problems of unstable viscosity of aq. bleaching agents during storage
AB
     and of increased oxidative load of textile laundered with peroxide-contg.
     detergents or pretreatment compns. were solved by use of aq. bleaching
     agent comprising H202 3-8, nonionic surfactant 0.2-2, anionic
     surfactant 0.5-5%, radical scavenger 0.01-0.2, H2O-miscible solvent or
     dispersant for the radical scavenger .ltoreq.1, 1st complexing agent for
     heavy metals with .gtoreq.1 phosphonic acid group
     0.1-2, a 2nd complexing agent for heavy metals with .gtoreq.1 carboxylic
     acid group 0.05-2%, and a polysaccharide thickener in an amt. necessary to
     produce viscosity 200-5000 mPa.cntdot.s at 20.degree. and 20 rpm
     (Brookfield rotational viscometer), the balance being H2O with pH 2.5-7.5.
     A typical bleach-contg. liq. detergent having pH 5.5 contained
     H202 5, ethoxylated (2 EO) C12-14 fatty alc. sulfate
     triethanolamine salts 2, Arlipon FT (nonionic surfactant) 0.53, Keltrol T
     0.61, 1,6-di-tert-butyl-4-methylphenol 0.03, EtOH 0.2,
     1-hydroxyethanediphosphonic acid 0.14, methylglycinediacetic acid 0.33,
     isothiazolone perfume/dye/preservative 0.15 parts and H2O balance.
     The problems of unstable viscosity of aq. bleaching agents during storage
     and of increased oxidative load of textile laundered with peroxide-contg.
     detergents or pretreatment compns. were solved by use of aq. bleaching
     agent comprising H2O2 3-8, nonionic surfactant 0.2-2, anionic
     surfactant 0.5-5%, radical scavenger 0.01-0.2, H2O-miscible solvent or
     dispersant for the radical scavenger .ltoreq.1, 1st complexing agent for
     heavy metals with .gtoreq.1 phosphonic acid group
     0.1-2, a 2nd complexing agent for heavy metals with .gtoreq.1 carboxylic
     acid group 0.05-2%, and a polysaccharide thickener in an amt. necessary to
     produce viscosity 200-5000 mPa.cntdot.s at 20.degree. and 20 rpm
     (Brookfield rotational viscometer), the balance being H2O with pH 2.5-7.5.
     A typical bleach-contg. liq. detergent having pH 5.5 contained
     H2O2 5, ethoxylated (2 EO) C12-14 fatty alc. sulfate
     triethanolamine salts 2, Arlipon FT (nonionic surfactant) 0.53, Keltrol T
     0.61, 1,6-di-tert-butyl-4-methylphenol 0.03, EtOH 0.2,
     1-hydroxyethanediphosphonic acid 0.14, methylglycinediacetic acid 0.33,
     isothiazolone perfume/dye/preservative 0.15 parts and H2O balance.
     ANSWER 15 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     2002-713562 [77]
                        WPIDS
AN
DNC
     C2002-202385
     New colloidal copper compounds, useful as agricultural fungicides, are
TI
     stable, adhere well to plants and are effective at low application rates.
DC
IN
     HUATO, J; OGURA, T
     (HUAT-I) HUATO J; (OGUR-I) OGURA T; (DERM-N) DERMET SA DE CV
PA
CYC
     WO 2002075007 A2 20020926 (200277)* ES
                                              22p
PΙ
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TR TZ UG ZM ZW
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
            RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM
     US 2002136781 A1 20020926 (200277)
    WO 2002075007 A2 WO 2002-MX22 20020320; US 2002136781 A1 US 2001-811610
ADT
     20010320
PRAI US 2001-811610
                      20010320
     WO 200275007 A UPAB: 20021129
     NOVELTY - Colloidal copper compounds (I) for use as agricultural
     fungicides are new.
          DETAILED DESCRIPTION - Colloidal copper compounds of formula (I) are
          x+y = 0-2, with mx + ny equal to 2;
```

m+n = oxidation numbers of the anions A and B, respectively;

A = chloride, bromide, iodide, fluoride, sulfate, phosphate, RCOO anion, tartrate, citrate or amino acid residue; and

R = hydrogen, 1-20C linear or branched hydrocarbyl chain, or aryl;

B is not defined.

An INDEPENDENT CLAIM is also included for preparation of (I) by purifying a solution of copper(II) ions then increasing the pH of the solution.

ACTIVITY - Fungicide.

When tomato plants were treated on day 48 with a suspension of 50 million spores of an unspecified Fusarium in 100 ml water, all plants were dead by day 69. When the plants were treated on day 45 with a colloidal copper citrate (50 mg copper/l), then with the spores on day 48, they showed a level of infection on the leaves, of only 5%.

MECHANISM OF ACTION - None given in the source material.

USE - (I) are used for control of fungal infections on plants.

ADVANTAGE - (I) produce stable colloidal particles (specifically because iron and aluminum impurities have been removed) that adhere well to leaves and require a lower rate of application than conventional copper fungicides.

Dwq.0/0

TECH

UPTX: 20021129

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Process: The copper(II) ion solution is prepared from copper(II) sulfate pentahydrate and purification comprises:

- (1) adding an oxidizing agent (e.g. hydrogen peroxide or chlorine) and phosphoric acid;
- (2) adjusting to pH 3 (especially with aqueous sodium carbonate); and
- (3) heating the solution and removing solids (iron and aluminum impurities).. .
- L3 ANSWER 16 OF 158 WPIDS (C) 2003 THOMSON DERWENT
- AN 2002-732868 [79] WPIDS

DNN N2002-577844 DNC C2002-207444

TI Formation of surface conductivity on substrate by treating the substrate with monomer and oxidant mixture, and reacting the monomer and oxidant in contact with and on the substrate surface.

DC A85 A92 L03 U11 V04 X12 X25

IN GE, H

PA (HWEL-N) HW ELECTROCHEM TECHNOLOGY PTE LTD

CYC 1

PI WO 2002074841 A1 20020926 (200279)\* EN 15p

ADT WO 2002074841 A1 WO 2001-SG63 20010316

PRAI WO 2001-SG63 20010316

AB WO 200274841 A UPAB: 20021209

NOVELTY - A surface conductivity is formed on a substrate by treating the substrate with a mixture of a monomer and an oxidant and allowing the monomer and oxidant to react in contact with and on the surface of the substrate to provide an intrinsically conductive polymeric surface on the substrate.

USE - The process is used for forming of surface conductivity on substrate. The resulting substrate is used in the packaging of microchips, circuit boards and other electronic components. It is can also be used to form a Faraday cage, in conductive flooring for electronic component production plants, wafer storage and shipping, personal electrostatic protection devices, work stations in semiconductor or electronic factories, conductive paint, cable shielding material and in the formation of conductive textiles.

ADVANTAGE - The resulting substrate has a surface conductivity of 1-1 multiply 10power11 (preferably 1 multiply 10power2-1 multiply 10power8) Omega /square. The process provides an improved production of conductive surface coating on non-conductive substrates.

Dwg.0/0

Preferred Oxidants: The oxidant is a compound which can change its valence. It is iron (III) chloride (FeCl3), iron (III) sulfate (Fe2(SO4)3), ammonium sulfur oxide-containing compound ((NH4)2S2O8), sodium sulfur oxide-containing compound (Na2S2O8), potassium dichromate (K2Cr2O7), hydrogen peroxide (H2O2), nitric acid (HNO3), perchloric acid (HClO4), quinone, potassium ferricyanide (K3(Fe(CN)6), phosphoric acid (H3PO4), molybdenum (VI) oxide (MoO3), tungsten oxide (WO3), chromium (VI) oxide (CrO3), ammonium cerium (III) sulfate ((NH4)Ce(NO3)6), cerium sulfate (Ce(SO4)2),. ANSWER 17 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2002-682664 [73] WPIDS N2002-539008 DNC C2002-192528 Injectable bone like implant used for repairing bone defect and injury comprises bone like compound and hydrophobic carrier or degradable component. A96 B04 D22 P34 WIRONEN, J F (WIRO-I) WIRONEN J F; (REGE-N) REGENERATION TECHNOLOGIES INC WO 2002058755 A2 20020801 (200273)\* EN 15p RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW US 2002193883 A1 20021219 (200303) WO 2002058755 A2 WO 2002-US3092 20020125; US 2002193883 A1 Provisional US 2001-263972P 20010125, US 2002-56217 20020125 PRAI US 2001-263972P 20010125; US 2002-56217 20020125 WO 200258755 A UPAB: 20021113 NOVELTY - A bone-like implant comprises at least one bone-like compound and a hydrophobic carrier or at least one degradable component. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for production of the implant which comprises mixing at least one bone-like compound in a hydrophobic carrier or a degradable component and concurrently or subsequently combining with an aqueous phase to form a combined mixture. ACTIVITY - Osteopathic. MECHANISM OF ACTION - None given in the source material. USE - Used for repairing a bone defect and injury. ADVANTAGE - The implant is capable of aqueous sintering or curing and increasing its porosity in situ. Dwg.0/0 TECH. - INORGANIC CHEMISTRY - Preferred Components: The bone-like compound is tricalcium phosphate, dicalcium phosphate or monocalcium phosphate, potassium phosphate, calcium sulfate, hydroxyapatite and/or bioactive glass. The degradable component is a degradable gas-producing compound (preferably sodium bicarbonate and/or calcium bicarbonate, hydrogen peroxide and peroxidase) and an acid (preferably citric acid, formic acid, acetic phosphoric acid or hydrochloric acid). The aqueous component is water, saline and/or blood. Preferred Method: The method involves reconstituting at least one bone-like compound. ANSWER 18 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2002-713305 [77] WPIDS

L3

ANDNN

DC

IN

PΑ CYC

PΙ

ADT

L3

ΑN

DNC C2002-202161 DNN N2002-562777 Cleaning wipe, for removing stains from inanimate surfaces, e.g. carpets, TIcomprises cleaning composition, which is composed of surfactant system(s), preservative system(s) and carrier.

```
DC
    A97 D25 E19 F04 P73
    DURDEN, C; MAURO, A J; MICCICHE, R P; TRIPATHI, U
IN
PA
     (INPL) PLAYTEX PROD INC
CYC
    97
    WO 2002055650 A1 20020718 (200277)* EN
                                              33p
PΙ
       RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TR TZ UG ZM ZW
        W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
            SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
     US 2002174500 A1 20021128 (200281)
    WO 2002055650 A1 WO 2002-US1124 20020111; US 2002174500 A1 Provisional US
     2001-261399P 20010112, US 2002-43872 20020110
                      20020110; US 2001-261399P 20010112
PRAI US 2002-43872
     WO 200255650 A UPAB: 20021129
     NOVELTY - A cleaning wipe comprises a cleaning composition which is
     composed of surfactant system(s), preservative system(s) and a carrier,
     and which is adjusted to a pH of 7.5-10.5. It has a loading level ratio of
     1:1-10:1, based on the total weight of the cleaning composition to a total
     weight of the wipe.
          DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
     method of producing the above cleaning wipe by placing the wipe in a
     container; dispensing the composition into the container; and sealing the
     container.
          USE - For removing stains from inanimate surfaces, e.g. carpets,
     fabrics, countertop, drawer, shelf, or metal fixture.
          ADVANTAGE - The inventive wipe provides superior cleaning and ease of
     use while maintaining chemical stability, resisting microbial growth and
     maintaining cleaning solution distribution during storage.
     Dwg.0/0
TECH.
     skin softening and conditioning agent, alcohol, and soil resist. The pH
     control agent is the salt of an acid, preferably 1-hydroxyethylidene-1,1-
     diphosphonic acid, citric acid, sodium bicarbonate, sodium
     citrate, sodium sulfate, sodium phosphate, and sodium carbonate.
     The peroxygen compound is hydrogen peroxide, t-butyl
     hydroperoxide, sodium percarbonate, and sodium perborate. Preferred skin
     softening and conditioning agent is lanolin, lanolin derivative, polyol,
     botanical derivative,.
     ANSWER 19 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
                        WPIDS
     2002-508636 [54]
AN
    C2002-144661
DNC
     Peroxosilicate compound useful in the disinfection of water in e.g.
TI
     swimming pools, is obtained by reacting alkali or alkaline earth
     metasilicate with an oxygen-liberating compound.
DC
     D15 D22 E37 M14
     AURIOL, M; BOUKARI, M; AURIOL, S
IN
     (EOTE-N) EOTEC; (INSF) INST FRANCAIS DU PETROLE
PΑ
CYC
     WO 2002048030 Al 20020620 (200254)* FR
                                              28p
PI
        RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
         W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
            DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
            KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU
            SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
     FR 2818264
                   A1 20020621 (200254)
     AU 2002019295 A 20020624 (200267)
ADT WO 2002048030 A1 WO 2001-FR3974 20011213; FR 2818264 A1 FR 2000-16367
     20001215; AU 2002019295 A AU 2002-19295 20011213
FDT AU 2002019295 A Based on WO 200248030
PRAI FR 2000-16367
                      20001215
     WO 200248030 A UPAB: 20020823
```

NOVELTY - A peroxosilicate compound with anti-scale and anti-corrosive properties, partly soluble in water, is obtained by the reaction of an alkali or alkaline earth metasilicate, preferably pentahydrated sodium or potassium metasilicate, with an oxygen-liberating compound active at a neutral pH.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of preparation of the compound.

USE - The compounds can be used for water treatment, particularly water in swimming pools. The combination of ingredients having the functions of: disinfection by progressive liberation of active O2 in the water; prolonged stabilization enabling O2 liberation over at least 3 weeks; autoregulation of pH due to a buffer effect over a wide pH range (6 - 8); antiscaling and lowering of hardness by complexation with Ca, or non-adherent scale formation eliminated by filtration; anti-corrosion; algicidal effects; and flocculation of materials in suspension or colloids, easily eliminated by filtration.

ADVANTAGE - The use of chlorine compounds, which are harmful to the environment and impart a corrosive character to the water treated, is avoided.

Dwg.0/0

TECH UPTX: 20020823

TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Compounds: The reaction is carried out in the presence of **phosphoric acid**, sodium phosphate or acid sodium **sulfate**. The O2-liberating compound is **H2O2**, the monopersulfates and acid monopersulfates of Na and K are sodium peroxodisulfate, peroxides of Li, Na, Ba, sodium peroxoborate and potassium peroxodisulfate; more preferably **H2O2** or potassium monopersulfate. Stabilized by reaction with a stabilizer, preferably sodium or potassium hexametaphosphate, before reaction with the metasilicate, to. . .

L3 ANSWER 20 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2002-712485 [77] WPIDS

DNN N2002-562016 DNC C2002-202023

TI Treatment of lead-contaminated waste materials or soil involves adding ferrous iron to the contaminated waste materials or soil and oxidizing the ferrous iron by drying or chemical oxidation.

DC D15 E37 J01 P35

IN STANFORTH, R R

PA (STAN-I) STANFORTH R R

CYC 1

PI US 2002115899 A1 20020822 (200277)\* 9p

ADT US 2002115899 A1 Provisional US 1999-172574P 19991220, US 2000-736307 20001215

PRAI US 1999-172574P 19991220; US 2000-736307 20001215

AB US2002115899 A UPAB: 20021129

NOVELTY - Lead-contaminated waste material or soil is treated by adding ferrous iron to the contaminated waste material or soil. The ferrous iron is oxidized in the waste materials or soil by drying or chemical oxidation to form a ferric compound incorporating the lead.

USE - For treating lead-contaminated waste materials or soil (claimed).

ADVANTAGE - The inventive method reduces lead bioavailability to control leaching in the natural environment and during digestion after accidental ingestion. It effectively treats hazardous lead contaminated material. The lead level after treatment is less than 0.75 mg/L as measured by the TCLP lead leaching test. Dwg.0/0

TECH.

to the total weight of the treated waste materials or soil.

Preferred Component: The soluble ferrous salt is ferrous nitrate, ferrous sulfate or ferrous chloride. The chemical oxidant is hydrogen peroxide. The source of orthophosphate is phosphoric acid, sodium phosphate, and/or triple

superphosphate. The alkaline material is calcium carbonate, calcium hydroxide, calcium oxide, magnesium hydroxide or magnesium oxide.

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L3 ANSWER 21 OF 158 WPIDS (C) 2003 THOMSON DERWENT
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AN 2002-706439 [76] WPIDS

CR 2002-146963 [19]; 2002-674176 [72]; 2002-674177 [72]

DNN N2002-556998 DNC C2002-200294

Memory device, e.g. dynamic random access memory, has titanium nitride layer which is planarized using planarizing medium containing fixed-abrasive planarizing pad and clean planarizing solution.

DC L03 P61 U11

IN CHOPRA, D; SABDE, G

PA (MICR-N) MICRON TECHNOLOGY INC

CYC :

PI US 2002115384 A1 20020822 (200276)\* 18p

ADT US 2002115384 A1 Div ex US 1999-339735 19990624, US 2002-115675 20020404

PRAI US 1999-339735 19990624; US 2002-115675 20020404

AB US2002115384 A UPAB: 20021125

NOVELTY - A memory device comprises an array of memory cells, row and column access circuits, and an address decoder circuit. At least one of the memory cells, access circuits and address decoder circuit has a titanium nitride layer which is planarized by abrading with a planarizing surface of a medium containing fixed-abrasive planarizing pad and clean planarizing solution.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) the production of a memory device by forming an array of memory cells, coupling row and column access circuits to the memory cells, respectively, and coupling an address decoder circuit to the access circuits;
- (b) a memory module comprising a support, leads extending from the support, a command link coupled to at least one of the leads, data links coupled to the leads, and at least one memory device contained on the support and coupled to the command link;
- (c) a memory system comprising a controller, command and data links respectively coupled to the controller, and the above memory device coupled to the command link and the data link; and
  - (d) the production of a memory module and memory system.

USE - As e.g. dynamic random access memory, static random access memory, or flash memory.

ADVANTAGE - The memory device exhibits physical characteristics different from the physical characteristics inherent in planarizing titanium nitride using non-abrasive planarizing pad and abrasive slurry planarizing solution.

DESCRIPTION OF DRAWING(S) - The figure is a block diagram of a computer system.

Dwg.9/9

or ca. 2 wt.% oxidizer.

Preferred Components: The etchant comprises at least one etching agent, i.e. oxalic acid, ascorbic acid, or phosphoric acid.

The buffer comprises at least one buffering agent, i.e. ammonium acetate, ammonium oxalate, ammonium phosphate, or diammonium phosphate. The oxidizer comprises at least one oxidizing agent, i.e. ammonium persulfate, ammonium heptamolybdate, ceric ammonium nitrate, ceric ammonium sulfate, or hydrogen peroxide.

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L3 ANSWER 22 OF 158 WPIDS (C) 2003 THOMSON DERWENT
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AN 2002-674176 [72] WPIDS

CR 2002-146963 [19]; 2002-674177 [72]; 2002-706439 [76]; 2003-045815 [04]

DNN N2002-533091 DNC C2002-189849

TI Electronic system as memory system, contains circuit module having semiconductor die which contains integrated circuit having titanium nitride layer planarized with planarizing surface of preset planarizing

```
medium.
DC
     L03 P61 U11
     CHOPRA, D; SABDE, G
IN
PA
     (MICR-N) MICRON TECHNOLOGY INC
CYC
     US 2002106975 A1 20020808 (200272)*
                                              16p
PΙ
    US 2002106975 A1 Div ex US 1999-339735 19990624, US 2002-116585 20020404
ADT
                     19990624; US 2002-116585
                                                 20020404
PRAI US 1999-339735
     US2002106975 A UPAB: 20030117
     NOVELTY - Electronic system contains circuit module having several leads
     coupled to processor and semiconductor die (SD) coupled to lead
     portion(s). SD contains substrate (12) supporting integrated circuit
     having titanium nitride layer (TNL). TNL is planarized by abrading TNL
     with planarizing surface (142) of planarizing medium having fixed-abrasive
     planarizing pad (140) and clean planarizing solution (44).
          DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method
     of forming the electronic system. The method involves coupling a circuit
     module to a processor.
          USE - As memory system, computer system, clock, television, cell
     phone, personal computer, automobile, industrial control system and
     aircraft.
          ADVANTAGE - The circuit module provides unilateral or bilateral
     communication and control. The integrated circuit device exhibits reduced
     performance variability. The computer system which includes the memory
     system as a sub-component incorporates processor and memory system on a
     single integrated circuit. Hence the communication time between the
     processor and the memory circuit is reduced.
          DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of
     fixed-pad format planarizing machine.
     Substrate 12
          Planarizing solution 44
          Planarizing pad 140
          Planarizing surface 142
     Dwg.2B/9
TECH.
     agent selected from oxalic acid, ascorbic acid and phosphoric acid. The
     buffer comprises at least one buffering agent selected from
     phosphoric acid, ammonium acetate, ammonium oxalate,
     ammonium phosphate and diammonium phosphate. The planarizing solution has
     a pH of approximately 1-5, preferably less. . . 3. The oxidizer
     comprises at least one oxidizing agent selected from ammonium persulfate,
     ammonium heptamolybdate, ceric ammonium nitrate, ceric ammonium
     sulfate and hydrogen peroxide. The planarizing
     solution is an aqueous solution comprising approximately 1-5 wt.% of
     oxalic acid and approximately 2-10 wt.% of ammonium.
    ANSWER 23 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     2002-360919 [39]
                       WPIDS
AN
                        DNC C2002-102140
DNN
    N2002-281998
TΤ
     Etching solution for chemical mechanical planarization or spin etch
     planarization of copper/tantalum/tantalum nitride surface, includes
     oxidizing reactant, co-reactant, and other additives.
DC
    A85 E19 L03 U11 X12
    LEVERT, J A; MUKHERJEE, S P; TOWERY, D L; ZHANG, F; LEVERT, J; MUKHERJEE,
TN
     S; TOWERY, D
     (LEVE-I) LEVERT J A; (MUKH-I) MUKHERJEE S P; (TOWE-I) TOWERY D L; (ZHAN-I)
PA
     ZHANG F; (HONE) HONEYWELL INT INC
CYC
    92
    US 2002020833 A1 20020221 (200239)*
                                              10p
PΙ
     WO 2002059393 A1 20020801 (200260) EN
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
            NL OA PT SD SE SL SZ TR TZ UG ZM ZW
        W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES
```

FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS

LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

ADT US 2002020833 A1 Cont of US 1999-357264 19990719, US 2000-745266 20001220; WO 2002059393 A1 WO 2001-US48867 20011218

PRAI US 1999-357264 19990719; US 2000-745266 20001220

AB US2002020833 A UPAB: 20020621

NOVELTY - An etching solution comprises an oxidizing reactant from ammonium persulfate, hydrogen peroxide, and nitric acid; a co-reactant from phosphoric acid, sulfuric acid, nitric acid, oxalic acid, acetic acid, and organic acids; and other additives.

DETAILED DESCRIPTION - An etching solution comprises an oxidizing reactant from ammonium persulfate, hydrogen peroxide, and nitric acid; a co-reactant from phosphoric acid, sulfuric acid, nitric acid, oxalic acid, acetic acid, and organic acids; and other additives from hydrochloric acid, aliphatic alcohols, butylated hydroxytoluene, Agidol-2, 2,6-di-tert-butyl-4((dimethylamino)methyl) phenol, 2,6-di-tert-4N,N-dimethylaminomethylphenol, borax, poly(oxyethylene)lauryl ether, malic acid, HOOC(X2)nCOOH, 3% tartaric acid, 1% ethylene glycol, 1,2,4-triazole, 1,2,3-triazole, tetrazole, nonionic surfactant, ethanol, trifluoroethanol, silicon hexafluoride, organic salt surfactant, polyvinyl alcohol, diphenylsulfamic acid, sodium oxalate, benzotriazole, sodium lignosulfonate, glycol, gelatin carboxymethylcellulose, amines, heavy metal salts, salts of copper and tantalum, potassium chloride, copper chloride, tin chloride, propylene glycol, 2-ethyl-hexylamine, copper carbonate, low molecular weight alcohols, glycols, phenols, aliphatic alcohols, polyvinylalcohols, anionic surfactants, cationic surfactants, fluorocarbon-based surfactants, non-ionic surfactants, polyvinyl alcohol solution stabilizers and species inhibiting spontaneous decomposition of oxidizing agents, and wetting agents. The non-ionic surfactants have the properties of adhering to certain materials to modify the chemical reactivity.

X = OH, amine, or H; n = 1-4.

USE - For chemical mechanical planarization or spin etch planarization of copper/tantalum/tantalum nitride surface in the fabrication of integrated circuits.

ADVANTAGE - The invention achieves 1:1 removal rate selectivity for copper and tantalum/tantalum nitride, and provides adequate material removal rates without excessive downforce being necessary on low dielectric components.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of chemical mechanical planarization.

Dwg.1/1

AB US2002020833 UPAB: 20020621

NOVELTY - An etching solution comprises an oxidizing reactant from ammonium persulfate, hydrogen peroxide, and nitric acid; a co-reactant from phosphoric acid, sulfuric acid, nitric acid, oxalic acid, acetic acid, and organic acids; and other additives.

DETAILED DESCRIPTION - An etching solution comprises an oxidizing reactant from ammonium persulfate, hydrogen peroxide, and nitric acid; a co-reactant from phosphoric acid, sulfuric acid, nitric acid, oxalic acid, acetic acid, and organic acids; and other additives from hydrochloric acid, aliphatic alcohols, butylated.

TECH.

ferric chloride. The species can be sodium chlorate, iron nitrate, ammonium persulfate, CuNH4Cl3, sodium persulfate, potassium metabisulfite, ammonium fluoride, copper sulfate, ammonium hydroxide, potassium hydroxide, hydrogen peroxide, copper nitrate, and sodium ethylenediamine tetraacetic acid (EDTA) salt of wetting agent. It can be hydrogen fluoride, nitric acid, hydrogen peroxide, sulfuric acid, and lactic acid. It can also be sodium hydroxide,

potassium hydroxide, ammonium hydroxide, and hydrogen peroxide. The solution. . . thorium, yttrium, tungsten, zinc, and zirconium. It also includes citric acid, erythorbic acid, and triethanolamine, in aqueous solution; sulfuric acid, hydrogen peroxide, molybdenum salt, phenolsulfonic acid in aqueous solution; and mineral acid, and molybdenum salt. The abrasive particles are coated with cesium oxide and are produced by a sol method. The oxidizing reactants include approximately50-approximately70 parts/vol. concentrated phosphoric acid, approximately24-approximately40 parts/vol. concentrated aqueous acetic acid, and approximately3-approximately10 parts/vol. concentrated aqueous nitric acid. The solution also includes approximately1-approximately15 parts/vol. concentrated. . .

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ANSWER 24 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
                        WPIDS
AN
     2002-734212 [80]
DNC
    C2002-208016
     Purification of biogas containing hydrogen sulfide and ammonia, removes
TΙ
     hydrogen sulfide at least partially by absorption into alkaline wash
     solution.
DC
     H06 J01
     PIEPER, S
IN
PΑ
     (PIEP-I) PIEPER S
CYC
PΙ
    DE 10119991
                  A1 20021024 (200280)*
                                               7p
ADT DE 10119991 A1 DE 2001-10119991 20010423
PRAI DE 2001-10119991 20010423
     DE 10119991 A UPAB: 20021212
     NOVELTY - Hydrogen sulfide is removed at least partially by absorption
     using an alkaline wash solution.
```

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the corresponding plant. Preferred features: The biogas contains H2S and/or NH3 as impurities, and the ammonia is removed at least partially, by absorption in an acid wash solution. The two gases are removed in two separate absorption stages (K1, K2), the first removing H2S or NH3 and vice versa respectively. Two columns and appropriate pipework, absorbent storage vessels (7, 15), pumps (P1, P2), valves (20) and instruments (21) are included. Sodium carbonate addition is controlled from pH measurement and its consumption is a function of the hydrogen sulfide concentration in the biogas.

USE - To purify biogas.

ADVANTAGE - Directly or indirectly, the presence of hydrogen sulfide, carbon dioxide and ammonia have the potential to cause corrosion in packaged power plants, and environmentally harmful emissions. The contaminant gases are removed from biogas by the new process, in a simple, cost-effective manner, improving on earlier processes. Power generation plant life and efficiency are increased. The plant, comprising essentially scrubbers and wash fluid storage vessels, can be constructed compactly and economically. Standard containers can be used. Running costs are small, using freely available reagents.

DESCRIPTION OF DRAWING(S) - A schematic plant flow diagram is presented. (Drawing includes non-English language text)

storage vessels 7, 15

valves 20

instruments 21

separate absorption stages K1, K2 pumps P1, P2 Dwg.1/1

TECH.

and water. Sufficient sodium hydroxide is dosed to produce sufficient sodium carbonate. In order to convert sodium sulfide into sodium sulfate, hydrogen peroxide is added under the control of redox potential measurement. Sulfuric acid absorption of NH3, produces ammonium sulfate ((NH4)2SO4). Acid dosing is controlled from pH. An alkaline wash solution of potassium hydroxide (KOH) and an

acid wash solution of phosphoric acid (H3PO4) are employed. ANSWER 25 OF 158 WPIDS (C) 2003 THOMSON DERWENT L3 2003-211928 [21] WPIDS ΆN C2003-054247 DNC Determination and optionally regulation of accelerator concentration in TI zinc phosphonating solution for steel, zinc (alloy)-plated steel and aluminum (alloy) uses biochemical hydrogen peroxide sensor giving electrical signal. DC D16 E19 E36 M14 KLING, H; SCHENZLE, B; SEEMANN, J IN PA(HENK) HENKEL KGAA CYC 46 ΡI DE 10118552 A1 20021017 (200321)\* 5p WO 2002083983 A2 20021024 (200321) DE RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR W: AU BG BR BY CA CN CZ HU ID IN JP KR MX NO NZ PL RO RU SG SI SK UA US UZ VN YU ZA DE 10118552 A1 DE 2001-10118552 20010414; WO 2002083983 A2 WO 2002-EP3793 ADT20020405 PRAI DE 2001-10118552 20010414 DE 10118552 A UPAB: 20030328 NOVELTY - Determination (M1) and optionally regulation of accelerator concentration in zinc phosphonating solution containing steel, steel plated with zinc (Zn) (alloy) and/or aluminum (alloy) with a solution containing Zn ions, phosphate ions and specified accelerator(s) (I) comprising determining the (I) concentration using a biochemical hydrogen peroxide sensor that gives an electrical signal with a magnitude, is new. DETAILED DESCRIPTION - Phosphation of metal surfaces, comprising steel, steel plated with zinc (Zn) or Zn alloy, aluminum (Al) and/or Al alloy involves spraying or dipping for 3 seconds to 8 minutes with a solution containing 0.2-3 g/l Zn ions and 3-50 g/l phosphate ions, such that the weight ratio of phosphate ions to Zn ions is not less than 3.7, and accelerator(s) (I). (I) comprises 0.3-4 g/l chlorate ions, 0.01-0.2 g/l nitrite ions, 0.05-2 g/l m-nitrobenzene sulfonate ions, 0.05-2 g/l m-nitrobenzoate ions, 0.05-2 g/l p-nitrophenol, 0.005-0.15 g/l free or combined hydrogen peroxide, 0.1-10 g/l free or combined hydroxylamine, 0.1-10 g/l reducing sugar, 0.05-4 g/l organic N-oxide, preferably N-methylmorpholine, and/or 0.5-5 g/l organic nitro compound selected from nitroguanidine, nitroarginine, its (m)ethyl and propyl esters and nitrofurfurylidene diacetate. The novelty is that the (I) concentration is determined using a biochemical hydrogen peroxide sensor that gives an electrical signal with a magnitude from which the (I) concentration can be determined. USE - (M1) is useful for measuring the concentration of accelerator(s) in the phosphonation solution, especially the concentration of free or combined hydrogen peroxide (H2O2), nitrite or hydroxylamine; and for automatic determination and regulation of the accelerator concentration (all claimed). ADVANTAGE - (M1) provides a new way of determining and preferably also regulating the accelerator content in zinc phosphonation solutions. Dwg.0/0 AB not less than 3.7, and accelerator(s) (I). (I) comprises 0.3-4 g/l chlorate ions, 0.01-0.2 g/l nitrite ions, 0.05-2 g/l m-nitrobenzene sulfonate ions, 0.05-2 g/l m-nitrobenzoate ions, 0.05-2 g/l p-nitrophenol, 0.005-0.15 g/l free or combined hydrogen peroxide, 0.1-10 g/l free or combined hydroxylamine, 0.1-10 g/l reducing sugar, 0.05-4 g/l organic N-oxide, preferably N-methylmorpholine,

TT: DETERMINE OPTION REGULATE ACCELERATE CONCENTRATE ZINC PHOSPHONATED SOLUTION STEEL ZINC ALLOY PLATE STEEL ALUMINIUM ALLOY BIOCHEMICAL HYDROGEN PEROXIDE SENSE ELECTRIC

and/or 0.5-5 g/l organic.

TT

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ANSWER 26 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2002:858210 CAPLUS
AN
DN
     138:270980
     Environmentally benign oxidation method with hydrogen peroxide
ΤI
ΑU
     Sato, Kazuhiko
     Research Institute for Green Technology, National Institute of Advanced
CS
     Industrial Science and Technology, Higashi, Tsukuba, 305-8565, Japan
     Yuki Gosei Kagaku Kyokaishi (2002), 60(10), 974-982
so
     CODEN: YGKKAE; ISSN: 0037-9980
PB
     Yuki Gosei Kagaku Kyokai
DΤ
     Journal; General Review
LΑ
     Japanese
     A review. The oxidn. procedure must be high-yielding and with high
AB
     selectivity without any byproducts through a simple, safe operation using
     a clean, well-behaving, and cheap oxidant. Aq. hydrogen peroxide is an
     ideal oxidant, because the atom efficiency is excellent and water is a
     sole theor. side product. The authors here report the no-solvent oxidn.
     using ag. hydrogen peroxide under entirely halide-free conditions. A
     catalytic system consisting of sodium tungstate and methyltrioctylammonium
     hydrogen sulfate effects oxidn. of secondary alcs. to ketones
     and primary alcs. to carboxylic acids using 3-30% hydrogen
    peroxide without any org. solvents. The turnover no. is two
     orders of magnitude higher than any previously reported hydrogen peroxide
     oxidn. Substituted benzyl alcs. are oxidized selectively to benzaldehydes
     and/or benzoic acids, depending on the property of the substituents.
     Addn. of (aminomethyl) phosphonic acid accelerates epoxidn. of olefins.
     These oxidn. methods are high-yielding, clean; safe, operationally simple,
     and cost-effective and therefore meet with the requirements of
     contemporary org. synthesis. Cyclohexene is converted directly to anal.
     pure, cryst. adipic acid in an excellent yield. Sulfides are oxidized to
     sulfoxides or sulfones in high yield. Aldehydes are oxidized to
     carboxylic acids without affecting olefinic or alc. functions.
    A review. The oxidn. procedure must be high-yielding and with high
AB
    selectivity without any byproducts through a simple, safe operation using
     a clean, well-behaving, and cheap oxidant. Aq. hydrogen peroxide is an
     ideal oxidant, because the atom efficiency is excellent and water is a
     sole theor. side product. The authors here report the no-solvent oxidn.
    using aq. hydrogen peroxide under entirely halide-free conditions. A
     catalytic system consisting of sodium tungstate and methyltrioctylammonium
    hydrogen sulfate effects oxidn. of secondary alcs. to ketones
     and primary alcs. to carboxylic acids using 3-30% hydrogen
    peroxide without any org. solvents. The turnover no. is two
    orders of magnitude higher than any previously reported hydrogen peroxide
           Substituted benzyl alcs. are oxidized selectively to benzaldehydes
     and/or benzoic acids, depending on the property of the substituents.
    Addn. of (aminomethyl) phosphonic acid accelerates epoxidn. of olefins.
    These oxidn. methods are high-yielding, clean; safe, operationally simple,
     and cost-effective and therefore meet with the requirements of
     contemporary org. synthesis. Cyclohexene is converted directly to anal.
     pure, cryst. adipic acid in an excellent yield. Sulfides are oxidized to
     sulfoxides or sulfones in high yield. Aldehydes are oxidized to
     carboxylic acids without affecting olefinic or alc. functions.
    Alcohols, reactions
IT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (primary, sodium tungstate and methyltrioctylammonium hydrogen
        sulfate for oxidn. of primary alcs. to carboxylic acids;
       environmentally benign no-solvent oxidn. method with hydrogen
       peroxide under halide-free conditions)
IT
    Alcohols, preparation
```

RL: SPN (Synthetic preparation); PREP (Preparation) (secondary, sodium tungstate and methyltrioctylammonium hydrogen sulfate for oxidn. of secondary alcs. to ketones;

```
environmentally benign no-solvent oxidn. method with hydrogen
       peroxide under halide-free conditions)
IT
     Carboxylic acids, preparation
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (sodium tungstate and methyltrioctylammonium hydrogen sulfate
        for oxidn. of primary alcs. to carboxylic acids; environmentally benign
        no-solvent oxidn. method with hydrogen peroxide
        under halide-free conditions)
IT
     Ketones, preparation
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (sodium tungstate and methyltrioctylammonium hydrogen sulfate
        for oxidn. of secondary alcs. to ketones; environmentally benign
        no-solvent oxidn. method with hydrogen peroxide
        under halide-free conditions)
IT
     Oxidation catalysts
        (sodium tungstate and methyltrioctylammonium hydrogen sulfate
        for oxidn. of secondary and primary alcs. to ketones and carboxylic
        acids; environmentally benign no-solvent oxidn. method with
        hydrogen peroxide under halide-free conditions)
IT
     Epoxidation catalysts
        (sodium tungstate, methyltrioctylammonium hydrogen, and (aminomethyl)
       phosphonic acid catalysts for epoxidn. of olefins.;
        environmentally benign no-solvent oxidn. method with hydrogen
       peroxide under halide-free conditions)
IT
     Alkenes, reactions
     Epoxides
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (sodium tungstate, methyltrioctylammonium hydrogen, and (aminomethyl)
       phosphonic acid catalysts for epoxidn. of olefins.;
        environmentally benign no-solvent oxidn. method with hydrogen
        peroxide under halide-free conditions)
     ANSWER 27 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2001:923577 CAPLUS
AN
DN
     136:42518
     Hair bleaches and dyes containing alkalies and oxidants
ΤI
     Matsuo, Takashi; Miyabe, Hajime; Shibata, Yutaka
IN
     Kao Corporation, Japan
PA
so
     PCT Int. Appl., 32 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     Japanese
FAN.CNT 1
                                       APPLICATION NO. DATE
                     KIND DATE
     PATENT NO.
                                           -----
                      ----
     ______
                            20011220
                                           WO 2001-JP4835
                                                            20010608
PΙ
     WO 2001095869
                     A1
        W: US
        RW: DE, FR, GB
                                           JP 2000-175133
     JP 2001354530 A2
                          20011225
                                                            20000612
                     A2
                            20011225
                                           JP 2000-175134
                                                            20000612
     JP 2001354531
                                           EP 2001-938562
                                                            20010608
     EP 1291006
                      A1
                            20030312
        R: DE, FR, GB
PRAI JP 2000-175133 A
                            20000612
     JP 2000-175134
                    Α
                            20000612
     WO 2001-JP4835
                     W
                            20010608
     An oxidn.-type hair bleach or dye which is composed of a first lotion
AΒ
     contg. an alkali agent and a second lotion contg. an oxidizing agent,
     contains the following components (A), (B), (C), and (D) in amts. described below based on the whole of the mixt. of the first lotion with
     the second one, and has a pH of 8 to 12: (A) 8-40 % a water-compatible
     org. solvent exhibiting an octanol-water partition coeff. (logP) of 0.3 or
     above at 25.degree.C and having a mol. wt. of .ltoreq. 200, (B) 0.1-10 %
     an alkali agent, (C) 0.1-12 % an oxidizing agent, hydrogen peroxide, and
```

(D) 25-70 % water. This hair bleach or dye has a high bleaching power,

can dye the hair in a good bright color, and is lowered in the irritant stench and the irritation to the scalp. A hair bleach comprised (1) a first lotion contg. Na polyoxyethylene lauryl sulfate 15, coco fatty acid diethanolamide 40, benzyl alc. 25, ammonia water (28 %) 7, and water 13 % and (2) a second lotion contg. Na polyoxyethylene lauryl sulfate 20, coco fatty acid diethanolamide 2, H2O2 soln. (35 %) 17, phosphoric acid soln. (75 %) 0.3, and water 60.7 %.

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

An oxidn.-type hair bleach or dye which is composed of a first lotion AB contg. an alkali agent and a second lotion contg. an oxidizing agent, contains the following components (A), (B), (C), and (D) in amts. described below based on the whole of the mixt. of the first lotion with the second one, and has a pH of 8 to 12: (A) 8-40 % a water-compatible org. solvent exhibiting an octanol-water partition coeff. (logP) of 0.3 or above at 25.degree.C and having a mol. wt. of .ltoreq. 200, (B) 0.1-10 % an alkali agent, (C) 0.1-12 % an oxidizing agent, hydrogen peroxide, and (D) 25-70 % water. This hair bleach or dye has a high bleaching power, can dye the hair in a good bright color, and is lowered in the irritant stench and the irritation to the scalp. A hair bleach comprised (1) a first lotion contq. Na polyoxyethylene lauryl sulfate 15, coco fatty acid diethanolamide 40, benzyl alc. 25, ammonia water (28 %) 7, and water 13 % and (2) a second lotion contg. Na polyoxyethylene lauryl sulfate 20, coco fatty acid diethanolamide 2, H2O2 soln. (35 %) 17, phosphoric acid soln. (75 %) 0.3, and water 60.7 %.

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ANSWER 28 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
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- AN 2001:693212 CAPLUS
- DN 135:244563
- Preparation of an aqueous solution of hydrogen peroxide from hydrogen and ΤI oxygen
- IN Devic, Michel
- PA Atofina, Fr.
- SO PCT Int. Appl., 29 pp.
  - CODEN: PIXXD2
- DT Patent
- LA French

```
FAN.CNT 1
    PATENT NO. KIND DATE
                                        APPLICATION NO. DATE
                                        _____
    _____
                   ----
                                    WO 2001-FR449 20010215
    WO 2001068519 A1 20010920
PI
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
            HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
            LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
            YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    FR 2806399
                     A1
                          20010921
                                       FR 2000-3438
                                                        20000317
    FR 2806399
                          20020913
                     В1
                         20021211
                                       EP 2001-907809
                                                        20010215
    EP 1263680
                     A1
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                          20030508
                                        US 2002-221339
                                                        20020910
    US 2003086853
                     A1
PRAI FR 2000-3438
                          20000317
                     Α
    WO 2001-FR449
                     W
                          20010215
    MARPAT 135:244563
OS
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An aq. soln. of hydrogen peroxide is prepd. by injection of hydrogen and AΒ oxygen into an aq. acidic soln. in the presence of a dispersed catalyst and a tenside. The tenside stable under acidic and oxidizing conditions has the following general formula: CnF2n+1-Q-G or CnF2n+1-G with Q being a spacer and G a hydrophilic group. The concn. of the tenside in the

reaction mixt. is 5-10 ppm to avoid foaming. An alk. metal bromide or hydrobromic acid (20-100 ppm) and bromine (2-10 ppm) are added to inhibit decompn. of the hydrogen peroxide. The catalyst consists of metals, such as palladium, platinum, ruthenium, rhodium, iridium, osmium, holmium or gold, preferably of palladium as the main component and platinum as the minor component. The bimetallic catalyst is supported on silica. The catalyst is prepd. by mixing the silica with a conc. soln. of the metal salts forming a paste, filtration and drying of the filtrate under conditions supporting slow crystn., redn. with hydrogen at 200-400 .degree.C, treatment of the solid with an acidic soln. (pH = 1-3) contg. bromide (20-100 mg/l) and bromine (2-20 mg/l) at 10-80 .degree.C, and subsequent filtration and drying at 100-140 .degree.C. The reaction for the prodn. of H202 is carried out in a stirred or tubular reactor at 30-60 .degree.C and 10-100 bars with a molar hydrogen/oxygen ratio < 0.0416. The aq. soln. is sepd. from the catalyst and additives by inverse osmosis using a polyamide membrane. THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT Fatty acids, uses Sulfonic acids, uses RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES (Uses) (surfactant, fluorinated; prepn. of an aq. soln. of hydrogen peroxide from hydrogen and oxygen) 7664-38-2, Phosphoric acid, uses RL: NUU (Other use, unclassified); USES (Uses) (prepn. of an aq. soln. of hydrogen peroxide from hydrogen and oxygen) ANSWER 29 OF 158 CAPLUS COPYRIGHT 2003 ACS 2001:565171 CAPLUS 135:139050 Bleaching detergents Kahre, Joerg; Elsner, Michael; Koester, Rita; Schmid, Karl Heinz Cognis Deutschland G.m.b.H., Germany PCT Int. Appl., 28 pp. CODEN: PIXXD2 Patent German FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE \_\_\_\_\_\_ ----\_\_\_\_\_ -----WO 2001-EP614 20010119 20010802 WO 2001055289 A1 W: US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR DE 2000-10003751 20000128 20010802 DE 10003751 A1 20000128 PRAI DE 2000-10003751 A MARPAT 135:139050 The title detergents contain hydroxy mixed ethers, alk(en)yl oligoglycosides, bleaching agents, and optionally, nonionic and anionic surfactants. A typical cleaning compn. contained 2-hydroxydecyl ethers of ethoxylated (22 EO) - propoxylated (1 PO) C8-10 fatty alcs. 5.0, H2O2 (30% aq.) 25.0, octyl sulfate 3.0 and hydroxyethane-1,1-diphosphonic acid 0.3% in H2O. THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT The title detergents contain hydroxy mixed ethers, alk(en)yl oligoglycosides, bleaching agents, and optionally, nonionic and anionic

surfactants. A typical cleaning compn. contained 2-hydroxydecyl ethers of

ethoxylated (22 EO) - propoxylated (1 PO) C8-10 fatty alcs. 5.0,

H202 (30% aq.) 25.0, octyl sulfate 3.0 and

hydroxyethane-1,1-diphosphonic acid 0.3% in H2O.

IT

IT

L3 ΑN

DN

ΤI

IN

PA so

DT

LA

PΙ

os

AΒ

AB

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ANSWER 30 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    2001:592261 CAPLUS
AN
DN
    135:137299
    Regioselective oxidation process and catalyst system for the preparation
TI
    of 2,5-dichlorophenol from 1,4-dichlorobenzene
    Henrick, Clive A.; Scheuerman, Randall A.
IN
    Syngenta Participations, Switz.
PA
    U.S., 6 pp.
SO
    CODEN: USXXAM
DT
    Patent
LA
    English
FAN.CNT 1
                                  APPLICATION NO. DATE
                   KIND DATE
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PI US 6274776 B1 20010814
PRAI US 1995-570837 19951212
                                       US 1995-570837 19951212
    CASREACT 135:137299
    2,5-Dichlorophenol, an intermediate in the manuf. of the herbicide
    dicamba, is prepd. by the regioselective oxidn. of 1,4-dichlorobenzene
    using a peroxo-, hydroperoxo-, superoxo-, or alkylperoxo-metal species in
     the presence of an .alpha.-hydroxy-, di-, tribasic carboxylic acid, or
     sulfonic acid, and hydrogen peroxide.
             THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    2,5-Dichlorophenol, an intermediate in the manuf. of the herbicide
    dicamba, is prepd. by the regioselective oxidn. of 1,4-dichlorobenzene
    using a peroxo-, hydroperoxo-, superoxo-, or alkylperoxo-metal species in
     the presence of an .alpha.-hydroxy-, di-, tribasic carboxylic acid, or
     sulfonic acid, and hydrogen peroxide.
IT
    13598-36-2, phosphonic acid
    RL: CAT (Catalyst use); USES (Uses)
        (alkyl-; regioselective oxidn. catalysts with metal-oxo species in the
       presence of hydrogen peroxide for the prepn. of
       2,5-dichlorophenol from 1,4-dichlorobenzene)
L3
    ANSWER 31 OF 158 CAPLUS COPYRIGHT 2003 ACS
    2001:111500 CAPLUS
AN
    134:164871
DN
    Stable compositions for removing stains from fabrics and carpets
TΙ
    Micciche, Robert P.; Lynch, Ann Marie; Tripathi, Uma; Belansky, Carol
IN
PΑ
    Playtex Products, Inc., USA
SO
    U.S., 5 pp.
    CODEN: USXXAM
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
                                         -----
     -----
PI US 6187738 B1 20010213
PRAI US 1998-73447P P 19980202
                                        US 1999-243086 19990202
    A compn. inhibiting the resoiling of fabrics and carpets includes a
    peroxygen compd., a surfactant, and a polymeric or copolymeric soil
    resist. Thus, a compn. contained water 94.77, H2O2 3.00, an
     acrylate copolymer 0.60, Na lauryl sulfate 0.60, Pareth 7 (alc.
     ethoxylate) 0.25, Na lauroyl sarcosinate 0.23, lauramine oxide 0.07, a
     fragrance 0.15, Dequest 2010 0.25, and Surcide P
     [hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine] 0.08 %.
             THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    A compn. inhibiting the resoiling of fabrics and carpets includes a
AB
    peroxygen compd., a surfactant, and a polymeric or copolymeric soil
    resist. Thus, a compn. contained water 94.77, H202 3.00, an
     acrylate copolymer 0.60, Na lauryl sulfate 0.60, Pareth 7 (alc.
     ethoxylate) 0.25, Na lauroyl sarcosinate 0.23, lauramine oxide 0.07, a
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fragrance 0.15, Dequest 2010 0.25, and Surcide P [hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine] 0.08 %. ANSWER 32 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 AN 2001:847374 CAPLUS DN 135:372556 Aldehyde stripping agents for aminoplast or phenolic resin adhesives TΙ IN Ohama, Chiaki Nankyo Efnica K. K., Japan PA Jpn. Kokai Tokkyo Koho, 5 pp. SO CODEN: JKXXAF DT Patent Japanese LA FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE -----\_\_\_\_\_ PI JP 2001323240 A2 20011122 PRAI JP 2000-141452 20000515 JP 2000-141452 20000515 The title agents, useful for mixing in the title adhesives (e.g., Oshika Resin 5905) to eliminate aldehyde odor, contain H2O2, ammonia generating materials (e.g., ammonium sulfate, guanidine phosphate), and optionally H2O2 stabilizers (e.g., Na pyrophosphate, H3PO4), polyamines, H2O2 decompg. accelerators (e.g., NH3), and/or urotropin. The title agents, useful for mixing in the title adhesives (e.g., Oshika AB Resin 5905) to eliminate aldehyde odor, contain H2O2, ammonia generating materials (e.g., ammonium sulfate, guanidine phosphate), and optionally H2O2 stabilizers (e.g., Na pyrophosphate, H3PO4), polyamines, H2O2 decompg. accelerators (e.g., NH3), and/or urotropin. 7664-38-2, **Phosphoric acid**, uses 7722-88-5, Sodium TT pyrophosphate RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (hydrogen peroxide stabilizers; aldehyde stripping agents for aminoplast or phenolic resin adhesives) ANSWER 33 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 2001:717176 CAPLUS AN DN 135:277385 Polluted soil remediation method using hydrogen peroxide TIOsumi, Shoujiro; Tsubota, Jun; Shinohara, Masafumi IN PA Jpn. Kokai Tokkyo Koho, 8 pp. SO CODEN: JKXXAF DT Patent Japanese LΑ FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ---------\_\_\_\_\_\_ PI JP 2001269657 A2 20011002 PRAI JP 2000-88464 20000328 JP 2000-88464 20000328 Polluted soil is remediated by decompg. org. matter with H2O2 in the presence of catalyst of a metal ion possible to be have 2 different valence values and the remediation involves a step of adding an assisting agent capable of providing a cation easier to be adsorbed in the soil by ion exchange or to cause reaction with H3PO4 more easily than the catalyst before treatment with H2O2. Alternatively, different agents may be added as the assisting agent for adsorption and reaction, resp. Hardly decomposable org. substances, e.g., polycyclic arom. hydrocarbons and org. substances with high cation exchange capacity are highly efficiently decompd. to remediate soil polluted with these substances.

7720-78-7, ferrous sulfate

RL: CAT (Catalyst use); USES (Uses)

TT

(catalyst; soil remediation by hydrogen peroxide in the presence of catalyst using assisting agent) 50-32-8, Benzo[a]pyrene, processes 7664-38-2, Phosphoric TΤ acid, processes RL: PEP (Physical, engineering or chemical process); POL (Pollutant); REM (Removal or disposal); OCCU (Occurrence); PROC (Process) (pollutants; soil remediation by hydrogen peroxide in the presence of catalyst using assisting agent) ANSWER 34 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 ΑN 2001:632218 CAPLUS DN 135:186872 Fuel cell type electrochemical reactors and operation of the reactors for ΤI hydrogen peroxide manufacture Otsuka, Kiyoshi; Yamanaka, Ichiro IN PA Asahi Chemical Industry Co., Ltd., Japan SO Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF DTPatent LA Japanese FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. -----\_\_\_\_\_ JP 2000-46114 20000223 PΙ JP 2001236968 A2 20010831 PRAI JP 2000-46114 20000223 The reactors have an electrolyte in a chamber between a pos. electrode chamber and a neg. electrode chamber, and an electron conductor forming an external short circuit between the electrodes. H2O2 is prepd. by using the reactors by supplying a H source and O to the neg. and pos. electrode chambers, resp., to obtain H2O2 in the electrolyte chamber. 1310-73-2, Sodium hydroxide, uses 7447-41-8, Lithium chloride, uses IT 7488-54-2, Rubidium sulfate 7601-90-3, Perchloric acid, uses 7647-01-0, Hydrochloric acid, uses 7647-14-5, Sodium chloride, uses 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses 7757-82-6, Sodium sulfate, uses 7778-80-5, 10294-54-9, Cesium sulfate Potassium sulfate, uses 10377-48-7, Lithium sulfate RL: NUU (Other use, unclassified); USES (Uses) (electrolytes in fuel cell type electrochem. reactors for manuf. of hydrogen peroxide) L3 ANSWER 35 OF 158 CAPLUS COPYRIGHT 2003 ACS 2001:255075 CAPLUS AN DN 134:283923 Manufacture of inorganic-coated galvanized steel sheets with good press TI formability Osuqi, Yukio; Nakagishi, Tetsuyuki; Kawanishi, Yoshihiro; Kuroda, Toru IN Sumitomo Metal Industries, Ltd., Japan PΑ Jpn. Kokai Tokkyo Koho, 9 pp. SO CODEN: JKXXAF DT Patent LA Japanese FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE \_\_\_\_\_ ----\_\_\_\_\_ JP 1999-273151 19990927 JP 2001098383 A2 20010410 PΙ PRAI JP 1999-273151 19990927 Aq. solns. (pH 1-7) contg. phosphoric acids and H2O2 at H2O2/phosphoric acid wt. ratios of 0.1-1 are applied on galvanized steel sheets pretreated with aq. solns. contg. alkalies and/or acids and baked at 50-300.degree. without washing with water to form inorg. films contg. 10-500  $mg/\bar{m}2$  P to give galvanized steel sheets showing good press formability, chem. conversion coating

formability, weldability, and adhesion properties. Inorg. films having

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P-O-P network structures are formed.
     Aq. solns. (pH 1-7) contg. phosphoric acids and H2O2 at
AB
     H202/phosphoric acid wt. ratios of 0.1-1 are
     applied on galvanized steel sheets pretreated with aq. solns. contg.
     alkalies and/or acids and baked at 50-300.degree. without washing with
     water to form inorg. films contg. 10-500 mg/m2 P to give galvanized steel
     sheets showing good press formability, chem. conversion coating
     formability, weldability, and adhesion properties. Inorg. films having
     P-O-P network structures are formed.
     Coating process
IT
        (coating of galvanized steel sheets with phosphoric
        acid-H2O2 mixts. for good press formability)
IT
     Galvanized steel
     RL: PEP (Physical, engineering or chemical process); TEM (Technical or
     engineered material use); PROC (Process); USES (Uses)
        (electrogalvanized; coating of galvanized steel sheets with
       phosphoric acid-H2O2 mixts. for good press
        formability)
IT
     Galvanized steel
     RL: PEP (Physical, engineering or chemical process); TEM (Technical or
     engineered material use); PROC (Process); USES (Uses)
        (hot-dip; coating of galvanized steel sheets with phosphoric
        acid-H2O2 mixts. for good press formability)
     2466-09-3, Pyrophosphoric acid 7664-38-2, Phosphoric
IT
                     10380-08-2, Tripolyphosphoric acid
     acid, processes
     RL: PEP (Physical, engineering or chemical process); PROC (Process)
        (coating of galvanized steel sheets with phosphoric
        acid-H2O2 mixts. for good press formability)
IT
     12727-73-0, processes
     RL: PEP (Physical, engineering or chemical process); TEM (Technical or
     engineered material use); PROC (Process); USES (Uses)
        (coating of galvanized steel sheets with phosphoric
        acid-H2O2 mixts. for good press formability)
     1310-73-2, Sodium hydroxide, processes 7664-93-9, Sulfuric acid,
IT
                7733-02-0, Zinc sulfate 10124-49-9, Iron
     processes
     sulfate
     RL: PEP (Physical, engineering or chemical process); PROC (Process)
        (for pretreatment; coating of galvanized steel sheets with
       phosphoric acid-H2O2 mixts. for good press
        formability)
     ANSWER 36 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2001:21329 CAPLUS
ΑN
     134:90884
DN
     Hair dyes comprising light isoparaffins in the first preparation and
TI
     oxidants in the second preparation
     Takemoto, Yuka; Yonetani, Yoshinobu; Okamoto, Yoshihiro
IN
     Yamahatsu Sangyo Kaisha, Ltd., Japan
PΑ
     Jpn. Kokai Tokkyo Koho, 14 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
FAN.CNT 1
                  KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
                           _____
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                     _ _ _ _
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                    A2
                                          JP 1999-178528
                                                           19990624
     JP 2001002538
                           20010109
PΙ
                           19990624
PRAI JP 1999-178528
     This present invention relates to hair dye compns. comprising light
     isoparaffins and monoisopropanolamine in the first agent and oxidants in
     the second agent. These compns. do not have an irritating odor and do not
     damage the hair. A hair dye first prepn. contained light isoparaffins 3,
     monoisopropanolamine 5, Na polyoxyethylene lauryl sulfate 20, coco fatty
     acid diethanolamide 2, oleic acid 5, propylene glycol 3,
     p-phenylenediamine 1, p-aminophenol 0.5, TGAA 0.4, disodium EDTA 0.2,
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perfumes 0.3, and distd. water q.s. to 100 %. A second prepn. contained sodium polyoxyethylene lauryl sulfate 2, cetanol 1.5 phosphoric acid 0.0002, H2O2 (35 % soln.) 17, and distd. water q.s. to 100 %. A mixt. of the first and second prepn. in an equal amt. provided excellent hair-dyeing ability and hair feels without offensive odors.

This present invention relates to hair dye compns. comprising light isoparaffins and monoisopropanolamine in the first agent and oxidants in the second agent. These compns. do not have an irritating odor and do not damage the hair. A hair dye first prepn. contained light isoparaffins 3, monoisopropanolamine 5, Na polyoxyethylene lauryl sulfate 20, coco fatty acid diethanolamide 2, oleic acid 5, propylene glycol 3, p-phenylenediamine 1, p-aminophenol 0.5, TGAA 0.4, disodium EDTA 0.2, perfumes 0.3, and distd. water q.s. to 100 %. A second prepn. contained sodium polyoxyethylene lauryl sulfate 2, cetanol 1.5 phosphoric acid 0.0002, H2O2 (35 % soln.) 17, and distd. water q.s. to 100 %. A mixt. of the first and second prepn. in an equal amt. provided excellent hair-dyeing ability and hair feels without offensive odors.

- L3 ANSWER 37 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 2001:885371 CAPLUS
- DN 136:8591
- TI Supported palladium-platinum catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen
- IN Paparatto, Giuseppe; D'Aloisio, Rino; De Alberti, Giordano; Buzzoni, Roberto
- PA Eni S.p.A., Italy; Enichem S.p.A.
- SO Eur. Pat. Appl., 13 pp. CODEN: EPXXDW
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE								
ΡI	EP 1160196	A1 20011205	EP 2001-201971	20010525								
	R: AT, BE,	CH, DE, DK, ES, FR,	GB, GR, IT, LI, LU	, NL, SE, MC, PT,								
	IE, SI,	, LT, LV, FI, RO										
	IT 2000MI1219	A1 20011203	IT 2000-MI1219	20000601								
	JP 2002029711	A2 20020129	JP 2001-164088	20010531								
	US 2002028174	A1 20020307	US 2001-870826	20010601								
PRAI	IT 2000-MI1219	A 20000601										

Direct synthesis of hydrogen peroxide from hydrogen and oxygen is carried AB out in a solvent contg. a halogenated promoter and an acid promoter in the presence of a supported bimetallic catalyst selected from platinum-group metals, esp. platinum and palladium. Palladium and platinum are present at 0.01-5 wt.% and 0.01-1 wt.% amts., resp., corresponding to a Pt-Pd at. ratio of 0.1-50:50-99.9, with preferred catalyst compns. of 0.4-2 wt.% Pd, 0.05-0.5 wt.% Pt, and a 1-30:70-99 at. ratio. The catalyst supports are selected from low-ash activated carbon, activated sulfonated carbon, silica, alumina, silica-alumina, and zeolites. with a catalyst surface area >300 m2/g. Suitable promoters include: (1) compds. that generate bromide ion (e.g., HBr, NaBr, and KBr), (2) acids (e.g., sulfuric acid, phosphoric acid, nitric acid, sulfonic acids, etc.). Hydrogen peroxide synthesis is carried out at 2-50.degree. and 50-300 atm. pressure, at 1:3-15 H2-02 molar ratio (and <4.5% molar H2 concn.) in an inert gas. Hydrogen peroxide is typically produced at a 6.2-6.6 wt.% dil. concn. in a solvent (e.g., MeOH), corresponding to a molar selectivity of 70-73%, and can be used directly after synthesis as the dil. soln. for an oxidn. process (esp. for olefins, arom. hydrocarbons, ammonia, and carbonyl compds., using titanium silicate catalyst).

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Alkali metal bromides

Halides

Sulfonic acids, uses

RL: CAT (Catalyst use); USES (Uses)

(promoter; supported palladium-platinum catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen)

TT 7647-15-6, Sodium bromide, uses 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses 7697-37-2, Nitric acid, uses 7758-02-3, Potassium bromide, uses 7789-38-0, Sodium bromate 10035-10-6, Hydrogen bromide, uses 12124-97-9, Ammonium bromide 24959-67-9, Bromide, uses RL: CAT (Catalyst use); USES (Uses)

(promoter; supported palladium-platinum catalysts for direct synthesis of hydrogen peroxide from hydrogen and oxygen)

- L3 ANSWER 38 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 2001:885369 CAPLUS
- DN 136:8590
- TI Continuous prodn. of dilute solutions of hydrogen peroxide by direct synthesis from hydrogen and oxygen over supported palladium-platinum catalysts
- IN Paparatto, Giuseppe; Rivetti, Franco; Andrigo, Pietro; De Alberti, Giordano
- PA Eni S.p.A., Italy; Enichem S.p.A.
- SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.				KI	ND	DATE			AP:	PLIC	ATIC	ON NC	э.	DATE			
	EP 1160195				- <del>-</del>													
ΡI				A1 20011205				EP 2001-201961					20010525					
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, (	GR,	IT,	LI,	LU,	, NL,	SE,	MC,	PT,
			ΙE,	SI,	LT,	LV,	FI,	RO										
	IT	T 2000MI1218 G 89399 P 2002029712			A.	1	2001	1203		IT	200	0-M	I121	В	2000	0601		
	SG				A:	1	2002	0618		SG	200	1-32	242		2001	0530		
	JP				A:	2	2002	0129		JP	200	1-16	64132	2	2001	0531		
	US	S 2002025293			A:	1	2002	0228		US	200	1-87	70494	4	2001	0601		
PRAT	IΤ	2000	-MI1	218	Α		2000	0601										

Continuous prodn. of alc. or aq. alc. solns. of hydrogen peroxide are prepd. by: (1) providing a reactor contg. a supported platinum-palladium catalyst dispersed in a reaction solvent, in the presence of an acid and a halogen-contg. promoter, (2) feeding a H2-O2-inert gas (e.g., N2) into the reactor, in which the H2 and O2 concns. are <4.5 vol.% and <21 vol.% (with the balance being the inert gas), (3) reacting the gas feedstock to produce a dil. (1-10 wt.%) H2O2 product, and (4) removing the liq. product and a gaseous stream composed essentially of unreacted H2 and O2 as well as the inert gas. The palladium and platinum catalysts are present at 0.4-2:0.01-1 wt.% ratio of Pd-Pt, corresponding to a 1-20:100-200 Pd-Pt at. ratio, optionally in the presence of another Group VIIIB and Group IB elements. Suitable supports include a low-ash charcoal or carbon, SiO2, Al203, SiO2-Al203, zeolites, with a surface area >600 mL/g. Hydrogen peroxide synthesis is carried out at 0-40.degree. and 40-150 bars, in a reaction solvent (e.g., MeOH). Suitable promoters include: (1) compds. that generate bromide ion (e.g., HBr, NaBr, and KBr), (2) acids (e.g., sulfuric acid, phosphoric acid, nitric acid, sulfonic acids, etc.). The dil. hydrogen peroxide soln., typically produced at a 6.8-7.3 wt.% concn. in a solvent (e.g., MeOH), corresponding to a molar selectivity of 67-74%, can be used directly after synthesis for an oxidn. process (esp. for olefins, arom. hydrocarbons, ammonia, and carbonyl compds., using titanium silicate catalyst).

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Alkali metal bromides

Sulfonic acids, uses

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RL: CAT (Catalyst use); USES (Uses)
        (promoter; continuous prodn. of dil. solns. of hydrogen
       peroxide by direct synthesis from hydrogen and oxygen over
        supported palladium-platinum catalysts)
                                      7664-93-9, Sulfuric
     7664-38-2, Phosphoric acid, uses
IT
                7697-37-2, Nitric acid, uses 10035-10-6, Hydrogen bromide,
     acid, uses
           24959-67-9, Bromide, uses
     RL: CAT (Catalyst use); USES (Uses)
        (promoter; continuous prodn. of dil. solns. of hydrogen
       peroxide by direct synthesis from hydrogen and oxygen over
        supported palladium-platinum catalysts)
     ANSWER 39 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
     2001:729698 CAPLUS
DN
     135:277720
     Oxidative hair dye compositions
TΙ
     Lorenz, Heribert
IN
PΑ
     Goldwell G.m.b.H., Germany
SO
     Eur. Pat. Appl., 6 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     German
FAN.CNT 1
                                        APPLICATION NO. DATE
     PATENT NO.
                   KIND DATE
                                          _____
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                                          EP 2001-106800
                                                           20010319
     EP 1138316 A2 20011004
ΡI
                 A3 20020213
B1 20030604
     EP 1138316
     EP 1138316
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                      A1
                           20011018
                                          DE 2000-10016497 20000401
     DE 10016497
                                          US 2001-809931 20010316
                           20011108
     US 2001037531
                      A1
PRAI DE 2000-10016497 A
                           20000401
     Oxidative hair dye compns. contain a developer and a coupler substance and
     1 or more metal compds. and have an alk. pH of 7.0-12.0. The compn.
     addnl. comprise H2O2 and 1-hydroxyethane-1,1-
     diphosphonic acid or its alkali metal or ammonium salt. Thus, an
     oxidative hair dye preformulation contained cetylstearyl alc. 10.00, coco
     fatty acid monoethanolamide 2.00, stearic acid monoethanolamide 2.00,
     stearic acid diethanolamide 1.00, p-toluenediamine sulfate 0.50,
     p-amino-o-cresol 0.40, p-aminophenol 0.10, monoethanolamine 6.20, NH4Cl
     0.20, sodium lauryl sulfate 0.30, CuCl2 0.0004, sodium sulfite 0.25, EDTA
     0.20, perfume 0.20, and water to 100%. This compn. was mixed in a 1:1
     ratio with the compn. comprising H202 6.0, cetylstearyl alc.
     1.80, sodium lauryl sulfate 0.20, 1-hydroxyethane-1,1-
     diphosphonic acid 0.30, salicylic acid 0.10, and water to 100.0%.
     Oxidative hair dye compns. contain a developer and a coupler substance and
AB
     1 or more metal compds. and have an alk. pH of 7.0-12.0. The compn.
     addnl. comprise H2O2 and 1-hydroxyethane-1,1-
     diphosphonic acid or its alkali metal or ammonium salt. Thus, an
     oxidative hair dye preformulation contained cetylstearyl alc. 10.00, coco
     fatty acid monoethanolamide 2.00, stearic acid monoethanolamide 2.00,
     stearic acid diethanolamide 1.00, p-toluenediamine sulfate 0.50,
     p-amino-o-cresol 0.40, p-aminophenol 0.10, monoethanolamine 6.20, NH4Cl
     0.20, sodium lauryl sulfate 0.30, CuCl2 0.0004, sodium sulfite 0.25, EDTA
     0.20, perfume 0.20, and water to 100%. This compn. was mixed in a 1:1
     ratio with the compn. comprising H202 6.0, cetylstearyl alc.
     1.80, sodium lauryl sulfate 0.20, 1-hydroxyethane-1,1-
     diphosphonic acid 0.30, salicylic acid 0.10, and water to 100.0%.
    ANSWER 40 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2001:78011 CAPLUS
AN
DN
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Manufacture of epoxides by epoxidation of olefins with hydrogen peroxide

TT

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Paparatto, Giuseppe; Forlin, Anna; Tegon, Paolo
IN
PΑ
     Enichem S.p.A., Italy
SO
     Eur. Pat. Appl., 11 pp.
     CODEN: EPXXDW
DT
     Patent
     English
LA
FAN.CNT 1
                                           APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
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                                           EP 2000-202658
                                                            20000724
                            20010131
PΙ
     EP 1072600
                      A1
                      В1
                            20030402
     EP. 1072600
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                            20010129
                                           IT 1999-MI1658
                                                            19990727
     IT 99MI1658
                      Α1
                                           AT 2000-202658
                                                            20000724
                      E
                            20030415
     AT 236140
                                           JP 2000-225897
                                                            20000726
                      A2
     JP 2001072673
                            20010321
                            20011009
                                           US 2000-626456
                                                            20000726
     US 6300506
                      В1
PRAI IT 1999-MI1658
                      Α
                            19990727
OS
     MARPAT 134:133280
     A continuous process for the prepn. of olefin oxides comprises direct
AB
     epoxidn. of an olefin with hydrogen peroxide or compds. capable of
     producing hydrogen peroxide under the reaction conditions in a solvent in
     the presence of a catalytic system consisting of a zeolite contg. titanium
     and a buffer system with a pH controlled within the values of 5.5 to 8.0
     and consisting of a nitrogen-contg. base and a salt thereof with an org.
     or inorg. acid. The process allows high conversions and selectivities of
     the olefin into the corresponding oxide with a catalytic activity stable
     over a period of time.
             THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 6
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
     50-21-5D, Lactic acid, amine salts 64-17-5, Ethanol, uses
                                                                   64-18-6D.
IT
     Formic acid, amine salts, uses 64-19-7D, Acetic acid, amine salts, uses
     67-56-1, Methanol, uses 67-63-0, Isopropyl alcohol, uses
                                                                 67-64-1,
                    74-89-5, Methylamine, uses 75-04-7, Ethylamine, uses
     Acetone, uses
                                   75-65-0, tert-Butyl alcohol, uses
     75-50-3, Trimethylamine, uses
     78-93-3, Methyl ethyl ketone, uses 79-09-4D, Propionic acid, amine salts
     79-14-1D, Glycolic acid, amine salts 98-86-2, Acetophenone, uses
     102-71-6, Triethanolamine, uses
                                     107-10-8, n-Propylamine, uses
     107-92-6D, Butyric acid, amine salts 108-93-0, Cyclohexanol, uses
     109-99-9, Tetrahydrofuran, uses 111-42-2, Diethanolamine, uses
     124-40-3, Dimethylamine, uses 141-43-5, Ethanolamine, uses
                                                                    142-96-1,
                  540-69-2, Ammonium formate 631-61-8, Ammonium acetate
     Butyl ether
     7664-38-2D, Phosphoric acid, amine salts, uses
                                7664-93-9D, Sulfuric acid, amine salts, uses
     7664-41-7, Ammonia, uses
     7783-20-2, Ammonium sulfate, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (manuf. of epoxides by epoxidn. of olefins with hydrogen
       peroxide)
     ANSWER 41 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     2002-106046 [14]
                       WPIDS
AN
    C2002-032498
DNC
     Aqueous liquid composition of matter used for conversion coating on metal
TΙ
     surface, comprises zirconium compounds, inorganically bonded fluorine,
     organic polymer molecules, and peroxy compounds.
DC
     A82 G02 M13 M14
     FICK, T H; MCKENZIE, C D; ROCHFORT, G L
IN
     (HENK) HENKEL CORP
PΑ
CYC
     WO 2001083850 A1 20011108 (200214)* EN
                                              22p
PΤ
        RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
           NL OA PT SD SE SL SZ TR TZ UG ZW
        W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
```

DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001057492 A 20011112 (200222)

ADT WO 2001083850 A1 WO 2001-US14135 20010502; AU 2001057492 A AU 2001-57492 20010502

FDT AU 2001057492 A Based on WO 200183850

PRAI US 2000-201100P 20000502

AB WO 200183850 A UPAB: 20020301

NOVELTY - An aqueous liquid composition of matter comprises component of transition metal compounds that contains zirconium and/or hafnium; inorganically bonded fluorine; organic polymer molecules; and peroxy compounds.

DETAILED DESCRIPTION - An aqueous liquid composition of matter comprises (A) a component of transition metal compounds that contains zirconium (Zr), hafnium, or both and also includes titanium (Ti), provided that Zr constitutes at least 30% of the moles of Zr and Ti; (B) a component of compound(s) that contains inorganically bonded fluorine and is not part of component (A); (C) a component of organic polymer molecules; and (D) a component of molecules, other than oxygen gas, that contain oxygen-atom-to-oxygen-atom chemical bonds.

INDEPENDENT CLAIMS are also included for (A) a process for forming a transparent conversion coating on a metal surface comprising contacting the metal surface with an aqueous liquid composition of matter; (B) a metal article having a surface; and (C) a method of making an aqueous liquid composition of matter for forming on a metal surface with which the aqueous liquid composition is contacted a transparent conversion coating comprising dissolving in water at least (A) component of transition metal compounds that contains zirconium (Zr), hafnium, or both and also includes titanium (Ti), provided that Zr constitutes at least 30% of the moles of Zr and Ti; (B) a component of compound(s) that contains inorganically bonded fluorine and is not part of component (A); (C) a component of organic polymer molecules; and (D) a component of molecules, other than oxygen gas, that contain oxygen-atom-to-oxygen-atom chemical bonds.

USE - Used for conversion coating on metal surface.

ADVANTAGE - The conversion coatings formed had improved heat stability compared to conventional conversion coatings. Dwg.0/0

TECH.

soluble neutral or acid salt of HF, tetrafluoroboric acid or salt of tetrafluoroboric acid. The polar moiety can be carboxylate, phosphonate, sulfate, amino, nitrogen or phosphino phosphorus. Component (D) comprises hydrogen peroxide. Preferred Composition: The concentration of component (D) in g/l, measured as its stoichiometric equivalent as H2O2, has a ratio to the concentration of component (C) in g/l that is at least 1:1 and not more than 35:1. . .

L3 ANSWER 42 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-549950 [61] WPIDS

DNN N2001-408535 DNC C2001-163661

TI New formulation for use in chemiluminescent assays and detection procedures.

DC B02 B03 B05 B07 D16 S03

IN GIRI, B P

PA (GIRI-I) GIRI B P

CYC 95

PI WO 2001055446 A1 20010802 (200161)\* EN 43p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2001034612 A 20010807 (200174)

US 2001046688 A1 20011129 (200202) EP 1254252 A1 20021106 (200281) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

ADT WO 2001055446 A1 WO 2001-US2779 20010126; AU 2001034612 A AU 2001-34612 20010126; US 2001046688 A1 Provisional US 2000-178626P 20000128, US 2001-770592 20010126; EP 1254252 A1 EP 2001-906739 20010126, WO 2001-US2779 20010126

FDT AU 2001034612 A Based on WO 200155446; EP 1254252 A1 Based on WO 200155446 PRAI US 2000-178626P 20000128; US 2001-770592 20010126

AB WO 200155446 A UPAB: 20011024

NOVELTY - A stabilized substrate formulation, (F), for use in chemiluminescent assays and detection procedures comprising at least one of a chemiluminescent organic compound, an oxidizing agent, a stabilizing agent and one suitable buffer, where the formulation having between pH 5.5 - 12.0, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are include for the following:

- (1) conducting chemiluminescent detection; and
- (2) a kit for use in luminescent assays comprising:
- (a) an organic chemiluminescent compound;
- (b) an enhancer;
- (c) an oxidant;
  - (d) a stabilizing agent;
  - (e) a solubilizing agent; and
  - (f) a buffer. The substrate pH is between 5.5-12.0.

USE - The formulation is useful to create novel stabilized chemiluminescent formulations.

ADVANTAGE - Chemiluminescence generates cold light by direct transformation of chemicals into electronic energy.

Dwg.0/7

TECH.

cetyltrimethyl ammonium chloride, cetyldimethylethyl ammonium bromide, Bacitracin, BSA, KLH, HSA, Trypsin inhibitor, polyethylene glycol, polymeric phosphonium salts, polymeric ammonium salts, DEQUEST 2060s, Coenzyme A, inorganic pyrophospahte, cytidine nucleotides, ethylenediaminetetraacetic acid (EDTA), diethylenetriaminepentaacetic acid, ethylenebis(oxyethylenenitrolo) tetraacetic acid and other related macromolecules, surfactants and polymers. The oxidizing agent is selected from the group consisting of hydrogen peroxide, urea hydrogen peroxide, sodium carbonate hydrogen peroxide, a perborate salt and mixtures of these. F comprises between:

- (a) 0.1 microM 200 mM, volume to volume, (v/v) of. . . an in situ peroxide forming system, preferably the oxidising agent is a mixture of D-glucose and glucose oxidase which produces hydrogen peroxide in situ. The stabilizing agent is selected from polyethylene branched nonylphenyl ether, lauryl sulfate, domiphen bromide, CTAB, EDTA and mixtures of these. Preferred Method: (1) comprises:
- (a) providing a probe which reacts with a substrate. . .
- L3 ANSWER 43 OF 158 WPIDS (C) 2003 THOMSON DERWENT
- AN 2001-580850 [65] WPIDS
- DNN N2001-432624 DNC C2001-172142
- TI Composition for planarizing the surfaces of a substrate such as a semiconductor wafer comprises a liquid carrier, a chemical accelerator, and solids comprising fumed metal oxide and abrasive particles.
- DC E16 E37 L03 P61 U11
- IN DIRKSEN, J A; FANG, M; MUELLER, B L
- PA (CABO) CABOT MICROELECTRONICS CORP
- CYC 95
- PI WO 2001036554 A1 20010525 (200165)\* EN 26p RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZW W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW AU 2001016600 A 20010530 (200165) US 6293848 B1 20010925 (200165) EP 1250390 A1 20021023 (200277) EN R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR KR 2002056913 A 20020710 (200304) US 6527817 B1 20030304 (200320) JP 2003514949 W 20030422 (200336) 31p CN 1399668 A 20030226 (200337) WO 2001036554 A1 WO 2000-US31653 20001115; AU 2001016600 A AU 2001-16600 20001115; US 6293848 B1 US 1999-440401 19991115; EP 1250390 A1 EP 2000-979195 20001115, WO 2000-US31653 20001115; KR 2002056913 A KR 2002-706172 20020514; US 6527817 B1 CIP of US 1999-440401 19991115, US 2000-625142 20000725; JP 2003514949 W WO 2000-US31653 20001115, JP 2001-539035 20001115; CN 1399668 A CN 2000-815722 20001115 AU 2001016600 A Based on WO 200136554; EP 1250390 A1 Based on WO 200136554; JP 2003514949 W Based on WO 200136554 20000725; US 1999-440401 19991115 PRAI US 2000-625142 WO 200136554 A UPAB: 20011108 NOVELTY - Composition for planarizing or polishing a surface comprises a liquid carrier, a chemical accelerator, and solids having a packing density of at least 0.1 and comprising 5-90 wt. % fumed metal oxide and 10-95 wt. % abrasive particles. About 90% of the number of abrasive particles have particle size of at most 100 nm. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is given for a method of planarizing or polishing a surface, comprising contacting the surface with the above composition, where the surface is a (preferably, nickel-phosphorus) memory or rigid disk surface. USE - Polishing of various surfaces, especially a semiconductor or metal layer of a memory or rigid disk (claimed), for example, and in the manufacture of integrated circuits and semiconductors. ADVANTAGE - Good planarization efficiency, uniformity, removal rate and low defectivity, i.e. reduced surface imperfections and damage to underlying structures, during the polishing and planarization of substrates. Dwg.0/0 carrier is preferably water. The chemical accelerator is a sulfate, a persulfate, or a nitrate, and is preferably selected from ammonium sulfate, iron (III) nitrate, and hydroxylamine nitrate. The composition can also include an oxidizing agent (preferably, hydrogen peroxide) and a complexing agent selected from an amine-containing compound (preferably, glycine), a source of phosphate ions, a source of phosphonate ions, a carboxylate, and their mixtures. Desirable abrasive particles are metal oxides such as alumina, silica, titania, ceria, zirconia and. ANSWER 44 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2001-211364 [21] WPIDS DNC C2001-062918 Production of papermaking pulp from nonwood fiber source material by extracting source material with alkaline solution, reducing pH of source material, treating source material with ozone, and bleaching source material. F09

(HURT-N) HURTERCONSULT INC; (UYNC-N) UNIV NORTH CAROLINA STATE

TECH.

L3

AN

TI

DC

IN

PΑ

BYRD, M V; HURTER, R W

CYC 95 PΙ WO 2001016423 A1 20010308 (200121)\* EN 55p RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW AU 2000066480 A 20010326 (200137) B1 20011016 (200164) US 6302997 A1 20020925 (200271) EN EP 1242677 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI A 20020925 (200305) CN 1371439 WO 2001016423 A1 WO 2000-US22921 20000821; AU 2000066480 A AU 2000-66480 ADT 20000821; US 6302997 B1 US 1999-385154 19990830; EP 1242677 A1 EP 2000-954145 20000821, WO 2000-US22921 20000821; CN 1371439 A CN 2000-812212 20000821 AU 2000066480 A Based on WO 200116423; EP 1242677 A1 Based on WO 200116423 PRAI US 1999-385154 19990830 WO 200116423 A UPAB: 20010418 NOVELTY - A papermaking pulp is produced from a nonwood fiber source material by (a) extracting the source material with an alkaline pulping solution for at least atmospheric pressure; (b) reducing the pH of the source material to an acidic pH with an acid solution; (c) treating the acidic source material with ozone; and (d) treating the ozone-treated source material with a bleaching solution. USE - For producing a papermaking pulp from a nonwood fiber source material. ADVANTAGE - The method is cost effective, environmentally sound at small scale and odor-free. It keeps the number of processing steps or stages to a minimum, minimizes water usage, and uses chemicals which permit recovery of all internal filtrate streams. It removes high content of non-fibrous materials often found in nonwoods, e.g., pith, parenchymal cells or fines. The papermaking pulp produced has a Kappa number of at least 5, a brightness level of at least 70%, preferably at least 80%, International Standards Organization, and a freeness level of at least 400, preferably at least 550, ml Canadian Standard Freeness. Dwg.0/6 TECH. comprises a mineral acid and/or an organic acid, and a chelating agent. Preferably, the acid is sulfuric acid, nitric acid, phosphoric acid, and/or acetic acid. The bleaching solution is an alkaline peroxide bleaching solution or a chlorine-based bleaching solution, preferably chlorine dioxide. The alkaline peroxide bleaching solution comprises NaOH, hydrogen peroxide, magnesium sulfate, sodium silicate, and a chelant. ANSWER 45 OF 158 WPIDS (C) 2003 THOMSON DERWENT L3 2001-168474 [17] WPIDS ANDNC C2001-050307 DNN N2001-121492 Etching solution for spin etch planarization of surfaces for fabricating ΤI integrated circuits comprises an oxidizing reactant for forming a passivation layer. DC E19 L03 U11 LEVERT, J; TOWERY, D L; LEVERT, J A; TOWERY, D IN (ALLC) ALLIED-SIGNAL INC; (LEVE-I) LEVERT J A; (TOWE-I) TOWERY D L; PA (LEVE-I) LEVERT J; (TOWE-I) TOWERY D CYC WO 2001006555 A1 20010125 (200117)\* EN 38p PΙ RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

> W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG

```
MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
            UZ VN YU ZW
     AU 2000060809 A 20010205 (200128)
     US 2001054706 A1 20011227 (200206)
                  A1 20020424 (200235)
                                        EN
     EP 1198827
         R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
            RO SE SI
     KR 2002016907 A 20020306 (200261)
     JP 2003505859 W 20030212 (200321)
                                              30p
                 A 20021127 (200322)
     CN 1382305
     US 2003073311 A1 20030417 (200329)
ADT WO 2001006555 A1 WO 2000-US18723 20000710; AU 2000060809 A AU 2000-60809
     20000710; US 2001054706 A1 US 1999-356487 19990719; EP 1198827 A1 EP
     2000-947151 20000710, WO 2000-US18723 20000710; KR 2002016907 A KR
     2002-700824 20020119; JP 2003505859 W WO 2000-US18723 20000710, JP
     2001-510911 20000710; CN 1382305 A CN 2000-812842 20000710; US 2003073311
     Al Div ex US 1999-356487 19990719, US 2002-222230 20020815
FDT AU 2000060809 A Based on WO 200106555; EP 1198827 A1 Based on WO
     200106555; JP 2003505859 W Based on WO 200106555
                      19990719; US 2002-222230
PRAI US 1999-356487
     WO 200106555 A UPAB: 20010328
     NOVELTY - An etching solution (9) comprises an oxidizing reactant for
     forming a passivation layer; a depassivating co-reactant terminating the
     passivation property; and adjusting mechanism for diffusion of the
     reactants such that the rates of reactions in depressed regions of the
     surface are diffusion-limited and have slower rates than reactions at
     elevated regions of the surface.
          DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
     method of planarization of a substrate comprising spinning the substrate
     having the face to be planarized upward; directing an etching solution on
     the face of the substrate; and adjusting the diffusion of the oxidizing
     reactant and the depassivating co-reactant.
          USE - For spin etch planarization (SEP) of surfaces (8) for
     fabricating integrated circuits.
          ADVANTAGE - The invention provides planarization of a surface without
     mechanical contact or mechanical abrasion.
         DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of a
     SEP.
     Surfaces 8
          Etching solution 9
    Dwg.2/3
                   UPTX: 20010328
TECH.
     TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Material: The surface
     is copper or tantalum. The oxidizing reactant is hydrogen
     peroxide (H2O2), nitric acid (HNO3), and/or sodium
     chlorate.
     Preferred Reactant: The depassivating reactant is phosphoric
     acid, sulfuric acid, ammonium fluoride, copper (II)
     sulfate, HNO3, hydrogen fluoride, H2O2, sodium hydroxide
     and/or potassium hydroxide.
     Preferred Component: The adjusting mechanism comprises an additive from
    hydrochloric acid, borax, zinc sulfate, silicon hexafluoride,
    heavy metal salts, salts of copper and tantalum, copper carbonate, copper
     (I) chloride, iron chloride, and/or potassium chloride...
    ANSWER 46 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     2001-138078 [14]
                        WPIDS
AN
                        DNC C2001-040625
    N2001-100561
DNN
    Reagent used for clearing contaminants from soil or groundwater comprises
TT
     metal catalyst in aqueous solution and pH modifying agent.
DC
     C07 D15 H03 P43
     ANDREWS, T; GREENBERG, R S
IN
PA
     (ANDR-I) ANDREWS T; (GREE-I) GREENBERG R S
CYC
```

PI WO 2001002105 A1 20010111 (200114) \* EN 30p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2000057593 A 20010122 (200125)

US 6319328 B1 20011120 (200174)

US 2002002983 A1 20020110 (200208)

EP 1212149 A1 20020612 (200239) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

JP 2003503197 W 20030128 (200309) 38p

ADT WO 2001002105 A1 WO 2000-US17231 20000622; AU 2000057593 A AU 2000-57593 20000622; US 6319328 B1 US 1999-345922 19990701; US 2002002983 A1 Div ex US 1999-345922 19990701, US 2001-943130 20010830; EP 1212149 A1 EP 2000-943068 20000622, WO 2000-US17231 20000622; JP 2003503197 W WO 2000-US17231 20000622, JP 2001-507588 20000622

FDT AU 2000057593 A Based on WO 200102105; US 2002002983 A1 Div ex US 6319328; EP 1212149 A1 Based on WO 200102105; JP 2003503197 W Based on WO 200102105 PRAI US 1999-345922 19990701; US 2001-943130 20010830

AB WO 200102105 A UPAB: 20010312

NOVELTY - Reagent (I) comprises:

- (a) an aqueous solution comprising metal catalyst comprising at least one of iron(II) salts, Fe(III) salts, Fe(II) chelates and/or Fe(III) chelates; and
- (b) an optional pH modifying agent in an amount to provide a pH for the reagent of 5-8.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method of treating contaminants in an in situ environment which comprises:

- (a) preparing an aqueous solution comprising a metal catalyst comprising Fe(II) salts, Fe salts, Fe(II) chelates and/or Fe(III) chelates;
  - (b) optionally adding a pH-modifying;
- (c) adding a source of an oxidizing agent to the in situ environment in an amount to treat the contaminants and
- (d) adding the aqueous catalyst solution to the in situ environment in the presence of the source of the oxidizing agent in an amount to promote formation of the oxidizing agent in an amount to treat the contaminants.

USE - Used in the treatment of contaminants in an in situ environment. The reagent is used to remove contaminants such as pesticides, herbicides, liquid hydrocarbons, other organic compounds, lubricants, chlorinated solvents and metal cyanides, from soils, fractured bedrock and groundwater with moderate to high or moderate permeability. The contaminants to be treated are less dense or denser than water.

ADVANTAGE - Reactive species are efficiently generated, to give a cost efficient and effective method of oxidizing contaminants in soil or groundwater.

Dwg.0/0

TECH.

- ENVIRONMENT - Preferred components: The pH-modifying agent comprises water or a base. The metal catalyst is Fe(II) or Fe(III) sulfate, Fe(II) or Fe(III) EDTA chelate. The pH-modifying agent is water or sodium hydroxide. The oxidizing agent is a peroxide comprising hydrogen peroxide, sodium peroxide or calcium peroxide. The oxidizing agent is stabilized with a stabilizer comprising acids and/or salts. The stabilizer comprises phosphoric acid and/or monopotassium phosphate. Preferred method: The method comprises alternately adding the source of the oxidizing agent and the aqueous catalyst solution, . . .

AN 2002-033900 [04] WPIDS
DNC C2002-009422
TI In-situ treatment and remediation of contaminated underground area comprises injecting reactive solutions comprising ferrous sulfate, hydrogen peroxide and sulfuric or phosphoric acid in the ground.

DC D15
IN BRYANT, J D; WILSON, J T
PA (BRYA-I) BRYANT J D; (WILS-I) WILSON J T

CYC 1 PI US 2001042722 A1 20011122 (200204)\* 11p

ADT US 2001042722 A1 Provisional US 2000-205326P 20000516, US 2001-855442 20010515

PRAI US 2000-205326P 20000516; US 2001-855442 20010515

AB US2001042722 A UPAB: 20020117

NOVELTY - An underground area contaminated with hexavalent chromium and other heavy metals, semi-metals or cyanide is in-situ treated and remediated by injecting first and second reactive solutions comprising ferrous sulfate and sulfuric acid or phosphoric acid, and hydrogen peroxide and sulfuric or phosphoric acid, respectively, into injectors inserted in the ground.

DETAILED DESCRIPTION - In-situ treatment and remediation of an underground area contaminated with hexavalent chromium and other heavy metals, semi-metals or cyanide comprises:

- (a) determining an amount and concentration of a first reactive solution comprising ferrous sulfate and an acid comprising sulfuric acid or phosphoric acid required to decomplex chromium and other heavy metals, semi-metals or cyanide from mineral surfaces; initiating reduction of hexavalent chromium to trivalent chromium, and heavy metals and semi-metals to their least soluble valence state; and precipitating trivalent chromium, heavy metals and semi-metals as insoluble compounds;
- (b) determining an amount and concentration of a second reactive solution comprising hydrogen peroxide and an acid comprising sulfuric acid or phosphoric acid required to destroy organic ligands and enhance decomplexation;
- (c) injecting the first reactive solution and subsequently the second reactive solution at a flow rate in excess of a sustainable yield and with a pulsating pressure into injector(s) that are inserted into the ground, the injectors are sealed and positioned so as to assure liquid flow and dispersion of the reactive solutions through the contaminated area; and
- (d) allowing the first and second reactive solutions to flow through the contaminated area to react chemically with the contaminants in the area.

USE - For in-situ treatment and remediation of an underground area contaminated with hexavalent chromium and other heavy metals, semi-metals or cyanide.

ADVANTAGE - The inventive method is economical, thorough, uniform, and verifiable.

Dwg.0/4

AR

TI In-situ treatment and remediation of contaminated underground area comprises injecting reactive solutions comprising ferrous sulfate, hydrogen peroxide and sulfuric or phosphoric acid in the ground.

other heavy metals, semi-metals or cyanide is in-situ treated and remediated by injecting first and second reactive solutions comprising ferrous sulfate and sulfuric acid or phosphoric acid, and hydrogen peroxide and sulfuric or phosphoric acid, respectively, into injectors inserted in the ground.

DETAILED DESCRIPTION - In-situ treatment and remediation of an underground area contaminated. . . chromium, heavy metals and semi-metals as insoluble compounds;

- (b) determining an amount and concentration of a second reactive solution comprising hydrogen peroxide and an acid comprising sulfuric acid or phosphoric acid required to destroy organic ligands and enhance decomplexation;
- (c) injecting the first reactive solution and subsequently the second reactive solution.

TT: SITU TREAT CONTAMINATE UNDERGROUND AREA COMPRISE INJECTION REACT TTSOLUTION COMPRISE FERROUS HYDROGEN PEROXIDE PHOSPHORIC ACID GROUND.

ANSWER 48 OF 158 WPIDS (C) 2003 THOMSON DERWENT L3 2001-342033 [36] WPIDS AN

C2001-105773 DNC

Dyeing of cellulosic containing textile material with fiber reactive TIdyestuffs by using specified water baths from scouring the textile material to an after-scouring's final rinse.

A87 E19 E24 F06 DC IN HERRERA, F A A (ATAL-I) ATALA F A PΑ CYC

B1 20010227 (200136)\* US 6193764 12p PΙ

ADT US 6193764 B1 US 1999-295294 19990420

PRAI US 1999-295294 19990420

6193764 B UPAB: 20010628 HS AB

NOVELTY - Providing a process which provides outstanding lot-to-lot color reproduction and a reduced hydrolysis dyeing mechanism resulting in more fiber reactive dye being bonded to the substrate thus better color yield.

DETAILED DESCRIPTION - A cellulosic containing textile material is dyed with fiber reactive dyestuffs by using at most 6 water baths from scouring the textile material to an after-scouring's final rinse of the cellulosic containing textile material, and the elapsed time is less than 5 hours.

Dyeing of a cellulosic containing textile material with fiber reactive dyestuffs by:

- (1) scouring the textile material in a scouring bath;
- (2) dropping the scouring bath, and without rinsing, sequentially adding:
- (a) acetic acid;
  - (b) a dye assist system;
  - (c) a dyestuff formula;
  - (d) 5 200 g of electrolyte/L of the dye bath; and
- (e) a stable buffered alkaline material to the dye bath, after the required dyeing temperature of the dyestuffs has been reached, resulting in a pH of 8-12.5; subjecting the material to the dye bath; and
- (3) cold rinsing, after-scouring with acetic acid and an after-scouring agent at a temperature of 80-105 deg. C for 5-20 minutes, optionally hot water rinsing; and
  - (4) finally cold water rinsing the material.

The scouring bath comprises a scour assistant that is stable to high alkali, and a stable buffered alkaline material that permits proper pH to the scouring bath. The scouring bath has a pH of 8-11. The dye assist system comprises sodium meta nitrobenzene sulfonate and sodium polyacrylate. The dye stuff formula contains fiber reactive dyestuff(s). The stable buffered alkaline material permits proper fixation of dyestuff. The process uses at most 6 water baths from scouring the textile material to an after-scouring's final rinse of the cellulosic containing textile material, and the elapsed time is less than 5 hours.

USE - For dyeing cellulosic containing textile materials, e.g. fibers, yarns, and fabrics, with fiber reactive dyestuffs.

ADVANTAGE - The invention is a water, energy, and time efficient reactive rapid dyeing process suitable for all types of fiber reactive dyestuffs. It increases the rate of production of fiber reactive dyed cellulose containing materials per dyeing machine by as much as 60%. It decreases the cost of production. It provides an outstanding lot-to-lot

color reproduction, and a reduced hydrolysis dyeing mechanism resulting in more fiber reactive dye being bonded to the substrate, providing a better color yield. It further provides positive effects on the environment due to reduced volume of effluents as a result of decreased water consumption of the process (reduced to as much as 50%). Dwg.0/0

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CHEMISTRY - Preferred Component: The stable buffered alkali material is a blend of alkali metal hydroxides, alkali metal carbonates, and phosphoric acid.

The electrolyte comprises sodium sulfate or sodium chloride.
The scouring bath further comprises hydrogen peroxide
that permits required degree of whiteness of the cellulosic containing
textile material, and peroxide stabilizing agent.

L3 ANSWER 49 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-583739 [66] WPIDS

DNC C2001-173157

TI Composition for dyeing keratin-containing fibers, especially human hair, containing formyl-1-methylquinolinium tosylate, giving strong, fast dyeings in wide range of colors.

DC A60 D21 E13 E24 F06

IN HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D

PA (HENK) HENKEL KGAA

CYC 33

PI DE 19962875 A1 20010628 (200166) \* 12p AU 2001030127 A 20010709 (200166)

WO 2001047483 A1 20010705 (200166) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR W: AU BR CA CN CZ HU JP NO PL RU SK US VN

EP 1239817 A1 20020918 (200269) DE

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

ADT DE 19962875 A1 DE 1999-19962875 19991224; AU 2001030127 A AU 2001-30127

20001215; WO 2001047483 A1 WO 2000-EP12816 20001215; EP 1239817 A1 EP

2000-990772 20001215, WO 2000-EP12816 20001215

FDT AU 2001030127 A Based on WO 200147483; EP 1239817 A1 Based on WO 200147483 PRAI DE 1999-19962875 19991224

AB DE 19962875 A UPAB: 20011113

NOVELTY - A composition (A) for dyeing keratin-containing fibers contains a formyl-1-methylquinolinium tosylate of formula (I), as dyeing component. (I) include the new compound 4-formyl-1-methyl-quinolinium p-tolenesulfonate (Ia).

DETAILED DESCRIPTION - A composition (A) for dyeing keratin-containing fibers contains a formyl-1-methylquinolinium tosylate of formula (I) (where the CHO group is in the 2- or 4-position), optionally in the form of its hydrate, as dyeing component. (I) include the new compound 4-formyl-1-methyl-quinolinium p-tolenesulfonate (Ia).

INDEPENDENT CLAIMS are included for:

- (1) a method of dyeing keratin containing fibers, involving applying a dyeing composition (A) containing (I) and other conventional components to the fibers, leaving (A) in contact with the fibers for a suitable time (generally ca. 30 minutes) and rinsing or washing with shampoo; and
- (2) new compound 4-formyl-1-methyl-quinolinium p-tolenesulfonate of formula (Ia).

USE - (A) is especially used for dyeing human hair (claimed), but may also be used to dye wool, furs or feathers. In principle (A) may further be used for dyeing other natural fibers (e.g. cotton, jute, sisal, linen or silk), modified natural fibers (e.g. regenerated, nitro, alkyl, hydroxyalkyl or acetyl cellulose) and synthetic fibers (e.g. polyamide, polyacrylonitrile, polyurethane or polyester). (I) is used for dyeing keratin-containing fibers (claimed).

ADVANTAGE - (A) give bright dyeings with good fastness (e.g. light, wash and rub-fastness) in a wide range of colors, i.e. violet or blue if (I) is used alone or yellow via orange, red, violet and brown to

blue-black or black if (I) is used with other dyeing components. The dyeings have color depth, gray covering power and fastness at least comparable with those obtained using conventional oxidation hair dyes, even when (A) are used in the absence of oxidizing agents. (A) have little or no sensitizing potential and do not discolor the skin. (I) precipitate in crystalline form, and are thus readily obtained in the required purity and easily handled.

Dwg.0/0

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(iii) salts selected from ammonium, alkali metal, alkaline earth metal, aluminum, manganese, iron, cobalt, copper and zinc formates, carbonates, halides, sulfates, butyrates, valerates, caproates, acetates, lactates, glycolates, tartrates, citrates, gluconates, propionates, phosphates and phosphonates;

(iv) oxidizing agents, preferably hydrogen peroxide, at 0.01-6 wt. % of the ready-for-use solution; or (v) anionic, zwitterionic or nonionic surfactants. Preparation: (Ia) is prepared by reacting. . .

L3 ANSWER 50 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-466382 [51] WPIDS

DNC C2001-140829

TI Composition for dyeing keratin-containing fibers, especially human hair, contains carbazole aldehyde or ketone derivative.

DC A60 B07 D18 D21 E24 F06

IN HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D

PA (HENK) HENKEL KGAA

CYC 21

PI DE 19951135 A1 20010426 (200151) \* 11p WO 2001030312 A1 20010503 (200151) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: AU JP US

AU 2000077884 A 20010508 (200153)

ADT DE 19951135 A1 DE 1999-19951135 19991023; WO 2001030312 A1 WO 2000-EP10198 20001017; AU 2000077884 A AU 2000-77884 20001017

FDT AU 2000077884 A Based on WO 200130312

PRAI DE 1999-19951135 19991023

AB DE 19951135 A UPAB: 20010910

NOVELTY - Composition (A) contains at least one carbazole-aldehyde or carbazolyl-alkyl or -aryl ketone (I) as a dyeing component.

DETAILED DESCRIPTION - Composition (A) contains at least one carbazole derivative of formula (I) as a dyeing component.

R1 = H, 1-4C alkyl or aryl;

R2-R5 = H, halo, 1-4C alkyl, 1-4C alkoxy, 1-4C hydroxyalkoxy, OH,
NO2, NH2 (optionally substituted by 1-4C alkyl) or 1-4C acyl, or
two of R2-R5 = a fused aromatic ring;

R6 = 1-4C alkyl, 1-4C hydroxyalkyl, 1-4C carboxyalkyl, 1-4C aryl, aralkyl, aralkyl or heteroaryl.

INDEPENDENT CLAIMS are included for the following:

- (1) the use of (I) as a dyeing component in oxidation hair dye compositions, and
- (2) dyeing keratin containing fibers, involving applying a dyeing composition (A') containing (I), at least one compound (II) and other conventional components to the fibers, leaving (A') in contact with the fibers for a suitable time (generally 30 minutes) and rinsing or washing with shampoo. (II) Comprises compounds containing primary or secondary amino groups or hydroxy groups (i.e. primary or secondary aromatic amines, aromatic hydroxy compounds) and/or active CH compounds.
- USE (A) Is used for dyeing keratin containing fibers, especially for dyeing human hair (claimed), but may also be used to dye wool, furs or feathers. (A) May also be used for dyeing other natural fibers (e.g. cotton, jute, sisal, linen or silk), modified natural fibers (e.g. regenerated, nitro, alkyl, hydroxyalkyl or acetyl cellulose) and synthetic fibers (e.g. polyamide, polyacrylonitrile, polyurethane or polyester).

ADVANTAGE - (A) Give bright dyeings with good fastness (e.g. light, wash and rub-fastness) in a wide range of colors, i.e. yellow-brown via orange, brown-orange, medium brown, dark brown, olive green to blue-black or black. The dyeings have color depth, gray covering power and fastness at least comparable with those obtained using conventional oxidation hair dyes, even when (A) are used in the absence of oxidizing agents. (A) have little or no sensitizing potential. Dwq.0/0 TECH. (A); (iii) salts selected from ammonium, alkali metal, alkaline earth metal, aluminum, manganese, iron, cobalt, copper and zinc formates, carbonates, halides, sulfates, butyrates, valerates, caproates, acetates, lactates, glycolates, tartrates, citrates, gluconates, propionates, phosphates and phosphonates; (iv) oxidizing agents, preferably hydrogen peroxide, at 0.01-6 wt. % of the ready-for-use solution; and/or (v) anionic, zwitterionic or nonionic surfactants. ANSWER 51 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2001-419145 [45] WPIDS C2001-126982 Composition for dyeing keratin-containing fibers, especially human hair, contains aromatic aldehyde or ketone and active CH compound. B07 D18 D21 E24 F06 HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D (HENK) HENKEL KGAA 32 DE 19951134 A1 20010426 (200145)\* 14p WO 2001034106 A1 20010517 (200145) DE RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: AU BR CA CN CZ HU JP NO PL RU SK US VN AU 2001010252 A 20010606 (200152) EP 1235549 A1 20020904 (200266) DE R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE JP 2003513898 W 20030415 (200328) 42p DE 19951134 A1 DE 1999-19951134 19991023; WO 2001034106 A1 WO 2000-EP10125 20001014; AU 2001010252 A AU 2001-10252 20001014; EP 1235549 A1 EP 2000-971379 20001014, WO 2000-EP10125 20001014; JP 2003513898 W WO 2000-EP10125 20001014, JP 2001-536107 20001014 AU 2001010252 A Based on WO 200134106; EP 1235549 A1 Based on WO 200134106; JP 2003513898 W Based on WO 200134106 PRAI DE 1999-19951134 19991023 19951134 A UPAB: 20010813 NOVELTY - Composition (A) contains a combination of aromatic aldehydes or ketones (I) with N-heterocyclic or other active CH compounds (II) and/or (III) (and/or a product of reaction of (I) with (II) and/or (III)) as dyeing component. DETAILED DESCRIPTION - Composition (A) contains a combination of aromatic aldehydes or ketones of formula (I) with active CH compounds of formula (II) and/or R10-CH2-C(Z)-R11 (III) (and/or a product of reaction of (I) with (II) and/or (III)) as dyeing component. R1 = H, 1-4C alkyl or aryl; R2-R4 = H, halo, 1-4C alkyl, OH, 1-4C alkoxy, 1-4C hydroxyalkoxy or NO2; R5 = H, 1-4C alkyl, 2-4C hydroxyalkyl, 2-4C alkenyl or aryl; or R5 + one of R2-R4 = a fused 5-7 membered heterocyclic ring; or R5 + attached O = an olate group, the negative charge of which is balanced by an alkali metal or ammonium ion; n = 0-2;R10 = 1-10C alkyl, 2-4C alkenyl, 2-4C hydroxyalkyl, 2-4C carboxyalkyl, 2-4C sulfoalkyl or aralkyl; R7, R8 = H, 1-4C alkyl, halo, OH, 1-4C alkoxy or NO2, or R7 + R8 = a fused aromatic ring;

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R9 = H, 1-4C alkyl or aryl;
         X = O, S, CH=CH or NR12;
         R12 = 1-4C alkyl, 2-4C carboxyalkyl, 2-4C sulfoalkyl, 2-4C
     sulfoxyalkyl, 2-4C hydroxyalkyl or aralkyl;
          Y = halide, 1-4C alkylsulfate, 1-4C alkanesulfonate, arenesulfonate,
    1-4C perfluroalkanesulfonate, tetrafluoroborate, perhalate, sulfate,
    hydrogen sulfate or carboxylate anion;
          R10 = 1-4C acyl, aroyl, 1-4C alkylsulfonyl, 1-4C alkylsulfinyl, mono-
    or di-(1-4C alkyl) amino, vinylcarbonyl, methinimino, nitrile, ester or
    carboxamide group (optionally substituted by 1-4C alkyl, 2-4C hydroxyalkyl
    or aryl);
          R11 = 1-4C acyl, 1-4C alkoxy, mono- or di-(1-4C alkyl)-amino or 1-4C
    acylamino, or
          R10 + R11 = a group completing a 5-7 membered heterocycle selected
     from thiazolidine-2.5-dione, thiazolidine-2-thion-5-one,
    perhydropyrimidine-2,4,6-trione, perhydropyrimidine-2-thione-4,6-dione,
     cyclopentane-1,3-dione, cyclohexane-1,3-dione, indane-1,3-dione,
     2-pyrazolin-5-one, 1,2-dihydro-6-hydroxy-2-hydroxypyridine (sic) or their
     enol esters;
          Z = 0, S or C(CN)2.
          INDEPENDENT CLAIMS are included for the following:
          (i) the use of the (I)/((II) and/or (III)) combination and/or
     reaction product as a dyeing component in oxidation hair dye compositions;
     and
          (ii) a method of dyeing keratin containing fibers, involving applying
     a dyeing composition (A) containing the above dyeing component and other
     conventional components to the fibers, leaving (A) in contact with the
     fibers for a suitable time (generally 30 minutes) and rinsing or washing
     with shampoo.
          USE - (A) is used for dyeing keratin containing fibers, especially
     for dyeing human hair (claimed), but may also be used to dye wool, furs or
     feathers. (A) May also be used for dyeing other natural fibers (e.g.
     cotton, jute, sisal, linen or silk), modified natural fibers (e.g.
     regenerated, nitro, alkyl, hydroxyalkyl or acetyl cellulose) and synthetic
     fibers (e.g. polyamide, polyacrylonitrile, polyurethane or polyester).
          ADVANTAGE - (A) Give bright dyeings with good fastness (e.g. light,
     wash and rub-fastness) in a wide range of colors. The dyeings have color
     depth, gray covering power and fastness at least comparable with those
     obtained using conventional oxidation hair dyes, even when (A) are used in
     the absence of oxidizing agents. (A) have little or no sensitizing
    potential.
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     of (A);
     (iii) salts comprising ammonium, alkali metal, alkaline earth metal,
     aluminum, manganese, iron, cobalt, copper and zinc formates, carbonates,
    halides, sulfates, butyrates, valerates, caproates, acetates,
     lactates, glycolates, tartrates, citrates, gluconates, propionates,
    phosphates or phosphonates;
     (iv) oxidizing agents, preferably hydrogen peroxide,
     at 0.01-6 wt. % of the ready-for-use solution, and/or
     (v) anionic, zwitterionic or nonionic surfactants.
    ANSWER 52 OF 158 WPIDS (C) 2003 THOMSON DERWENT
    2001-357026 [38]
                       WPIDS
    C2001-110895
    Depolymerization of cellulose ether involves acid hydrolysis of a
     concentrated aqueous slurry at above the flocculation temperature, used to
     coat seeds, pharmaceuticals and for use in cosmetics and food.
     A11 A96 A97 B07 D13 D21 G02
    HAMMES, A
     (CLRN) CLARIANT GMBH
    23
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DE 19941893 A1 20010308 (200138)\*

DNC

WO 2001018062 A1 20010315 (200138) DE RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: JP KR MX US EP 1237931 A1 20020911 (200267) DE R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE KR 2002033784 A 20020507 (200271) JP 2003508597 W 20030304 (200319) 23p ADT DE 19941893 A1 DE 1999-19941893 19990903; WO 2001018062 A1 WO 2000-EP8538 20000901; EP 1237931 A1 EP 2000-960577 20000901, WO 2000-EP8538 20000901; KR 2002033784 A KR 2002-702908 20020304; JP 2003508597 W WO 2000-EP8538 20000901, JP 2001-522284 20000901 FDT EP 1237931 A1 Based on WO 200118062; JP 2003508597 W Based on WO 200118062 PRAI DE 1999-19941893 19990903 DE 19941893 A UPAB: 20010711 NOVELTY - A method for the depolymerization of hot water-flocculatable cellulose ethers (I) by hydrolytic degradation with acid, in which degradation is carried out at a temperature above the flocculation point with (I) in the form of a concentrated aqueous slurry. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for methylhydroxypropylcellulose (MHPC) with a Hoppler viscosity of not more than 50 mPa.s (measured on a 2.0% solution of the (dry) substance in water at 20 deg. C), which shows a degree of whiteness of more than 50% with a particle size distribution in where not more than 50% of the particles have a particle size of less than 125 micro m. USE - For coating pharmaceuticals or seeds, for use in cosmetics or food and for use in suspension polymerisation (claimed). ADVANTAGE - Enables the production of low-viscosity cellulose ethers with (as far as possible) a uniform degree of polymerisation, a low content of by-products, a very low salt content and a high degree of whiteness, forming solutions with a high transmission value. Dwg.0/0 TECH. to adjust the aqueous solution to pH 5.5-8.0. TECHNOLOGY FOCUS - INORGANIC CHEMISTRY - Preferred Reagents: Hydrochloric, sulfuric, nitric and/or phosphoric acid are used as mineral acids, peroxy compounds, perborates, sodium chlorite, halogens and/or halogen oxides are used as oxidizing agents (especially hydrogen peroxide), and sodium carbonate, bicarbonate, sulfate and/or bisulfate are used as salts for washing the product. ANSWER 53 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2001-203652 [21] WPIDS DNC C2001-060667 Dyeing composition giving deep, fast shades on keratin fibers, especially human hair, contains quaternized heterocyclic aldehyde or ketone and amino, hydroxy or active carbon-hydrogen compound. B07 D21 E19 E23 E24 HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D (HENK) HENKEL KGAA CYC 21 DE 19933187 A1 20010118 (200121)\* 11p WO 2001005359 A2 20010125 (200121) DE RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: AU JP US AU 2000064324 A 20010205 (200128) ADT DE 19933187 A1 DE 1999-19933187 19990715; WO 2001005359 A2 WO 2000-EP6399 20000706; AU 2000064324 A AU 2000-64324 20000706 AU 2000064324 A Based on WO 200105359 FDTPRAI DE 1999-19933187 19990715

NOVELTY - A composition (A) for dyeing keratin fibers contains at least one quaternized pyrazine, pyrimidine or pyridazine aldehyde or ketone

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DE 19933187 A UPAB: 20010418

derivative (I) and at least one compound (II) selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles or aromatic hydroxy compounds) and active CH compounds.

DETAILED DESCRIPTION - A composition (A) for dyeing keratin fibers contains at least one quaternized heterocyclic compound of formula (I) and at least one compound (II) selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles or aromatic hydroxy compounds) and active CH compounds:

R1 = H, 1-4C alkyl, aryl or heteroaryl;

R2-R4 = H, halo, 1-4C alkyl, 1-4C alkoxy, 1-4C hydroxyalkoxy, OH, SO3H or amino (optionally substituted by 1-4C alkyl) or 1-4C acyl; or two adjacent groups together form a fused benzene ring;

R5 = 1-4C alkyl, 1-4C hydroxyalkyl, 1-4C carboxyalkyl, 1-4C sulfoalkyl, aryl, aralkyl, heteroaryl or N-oxide residue;

two of Q1-Q3 = C and the other is optionally quaternized N;

X = direct bond or optionally substituted vinylene;

Y = halide, benzenesulfonate, p-toluenesulfonate, methanesulfonate, trifluoromethanesulfonate, perfluoroalkanoate, hydrogen sulfate, tetrachlorozincate or N-oxide residue.

An INDEPENDENT CLAIM is included for a method for dyeing keratin fibers, involving contacting the fibers for a suitable time (e.g. ca. 30 minutes) with a dyeing composition containing (I), (II) and conventional cosmetic components then rinsing or washing using shampoo, where (II) is selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles or aromatic hydroxy compounds) and active CH compounds.

USE - (A) is especially used for dyeing human hair (claimed), but may also be used with wool, furs, feathers or fibers of materials other than keratin, e.g. cotton, jute, sisal, linen, silk, regenerated cellulose, nitro-, alkyl-, hydroxyalkyl or acetyl-cellulose, polyamide, polyacrylonitrile, polyurethane or polyester. The combinations of (I) and (II) generally give orange-brown, red-brown or violet-brown shades.

ADVANTAGE - (I) gives bright, deep dyeings in a wide range of colors and have little or no sensitizing potential. Good color depth, grey covering power and fastness properties are obtained even in the absence of oxidizing agents (such as hydrogen peroxide).

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alkaline earth metal (e.g. magnesium, calcium, strontium or barium), aluminum, manganese, iron, cobalt, copper, zinc or ammonium formate, carbonate, halide, sulfate, butyrate, valerate, caproate, acetate, lactate, glycolate, tartrate, citrate, gluconate, propionate, phosphate or phosphonate; 0.01-6 wt. % of an oxidizing agent, specifically hydrogen peroxide; and/or anionic, zwitterionic or nonionic surfactants.

L3 ANSWER 54 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-192436 [20] WPIDS

DNC C2001-057897

TI Dyeing composition giving deep, fast shades on keratin fibers, especially human hair, contains N-vinyl-isatin derivative as dyeing component.

DC B07 D21 E19 E23 E24

IN ROSE, D

PA (HENK) HENKEL KGAA

CYC 32

PI DE 19932567 A1 20010118 (200120)\* 11p WO 2001003660 A1 20010118 (200120) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN CZ HU JP NO PL RU SK US VN

AU 2000058240 A 20010130 (200127)

EP 1194116 A1 20020410 (200232) DE

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

ADT DE 19932567 A1 DE 1999-19932567 19990713; WO 2001003660 A1 WO 2000-EP6218 20000704; AU 2000058240 A AU 2000-58240 20000704; EP 1194116 A1 EP 2000-943979 20000704, WO 2000-EP6218 20000704

FDT AU 2000058240 A Based on WO 200103660; EP 1194116 A1 Based on WO 200103660 PRAI DE 1999-19932567 19990713

AB DE 19932567 A UPAB: 20010410

NOVELTY - Composition (A) contains at least one N-vinyl-isatin derivative (I) as dyeing component.

DETAILED DESCRIPTION - Composition (A) contains at least one isatin derivative of formula (I) or its salt as dyeing component.

R1 = vinyl (optionally substituted by 1 or 2 1-4C alkyl);

R2-R5 = H, OH, halo, NO2, SO3H, COOH, 1-4C alkyl, 1-4C alkoxy or NR6R7; or two adjacent groups together form 1-4C alkylenedioxy;

R5, R6 = H, 1-4C alkyl or 2-4C hydroxyalkyl.

INDEPENDENT CLAIMS are included for the following:

- (i) the use of (I) or their salts as dyeing components in oxidation hair dyes; and
- (ii) a method for dyeing keratin fibers involving contacting the fibers for a suitable time (e.g. 30 minutes) with a dyeing composition containing (I) (or its salt), at least one compound (II) and conventional cosmetic components then rinsing or washing using shampoo. (II) Is selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles, aminoacids, oligopeptides formed from 2-9 aminoacids or aromatic hydroxy compounds) and active CH compounds.
- USE (A) Is especially used for dyeing human hair (claimed), but may also be used with wool, furs, feathers or fibers of materials other than keratin e.g. cotton, jute, sisal, linen, silk, regenerated cellulose, nitro-, alkyl-, hydroxyalkyl or acetyl-cellulose, polyamide, polyacrylonitrile, polyurethane or polyester.
- (I) Give orange or brown shades when used alone, but in combination with (II) may give shades from yellow via yellow-brown, orange, brown-orange, medium brown, olive green, dark brown, violet, dark violet and blue-black to black.

ADVANTAGE - (I) Gives bright, deep dyeings in a wide range of colors and have little or no sensitizing potential. Good color depth, grey covering power and fastness properties are obtained even in the absence of oxidizing agents (such as hydrogen peroxide).

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alkaline earth metal (e.g. magnesium, calcium, strontium or barium), aluminum, manganese, iron, cobalt, copper, zinc or ammonium formate, carbonate, halide, sulfate, butyrate, valerate, caproate, acetate, lactate, glycolate, tartrate, citrate, gluconate, propionate, phosphate or phosphonate; 0.01-6 wt. % of an oxidizing agent, specifically hydrogen peroxide; and/or anionic, zwitterionic or nonionic surfactants.

L3 ANSWER 55 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-212101 [22] WPIDS

DNC C2001-063394

TI Dyeing composition giving deep, fast shades on keratin fibers, especially human hair, contains nitroso-benzene derivative as dyeing component.

DC B07 D21 E19 E24

IN HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D

PA (HENK) HENKEL KGAA

CYC 21

PI DE 19932566 A1 20010118 (200122)\* 13p WO 2001003661 A1 20010118 (200122) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU JP US AU 2000065606 A 20010130 (200127)

ADT DE 19932566 A1 DE 1999-19932566 19990713; WO 2001003661 A1 WO 2000-EP6219 20000704; AU 2000065606 A AU 2000-65606 20000704

FDT AU 2000065606 A Based on WO 200103661

PRAI DE 1999-19932566 19990713

AB DE 19932566 A UPAB: 20010421

NOVELTY - A composition (A) for dyeing keratin fibers contains at least one nitroso-benzene derivative (I) as dyeing component.

DETAILED DESCRIPTION - A composition (A) for dyeing keratin fibers contains at least one nitroso-benzene derivative of formula (I) as dyeing component.

R1-R4 = H, halo, 1-4C alkyl, 1-4C alkoxy, 1-4C hydroxyalkoxy, OH, SO3H or amino (optionally substituted by 1-4C alkyl, 1-4C hydroxyalkoxy or aryl; or two adjacent groups together form a fused aromatic or heteroaromatic ring.

INDEPENDENT CLAIMS are included for:

- (1) the use of (I) as dyeing components in oxidation hair dyes; and
- (2) a method for dyeing keratin fibers, involving contacting the fibers for a suitable time (e.g. ca. 30 minutes) with a dyeing composition containing (I), at least one compound (II) and conventional cosmetic components then rinsing or washing using shampoo, where (II) is selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles or aromatic hydroxy compounds) and active CH compounds.

USE - (A) is especially used for dyeing human hair (claimed), but may also be used with wool, furs, feathers or fibers of materials other than keratin, e.g. cotton, jute, sisal, linen, silk, regenerated cellulose, nitro-, alkyl-, hydroxyalkyl or acetyl-cellulose, polyamide, polyacrylonitrile, polyurethane or polyester. (I) generally give yellow shades when used alone, but in combination with (II) may give shades from yellow via yellow-brown, orange, brown-orange, medium brown, olive green, dark brown, violet, dark violet and blue-black to black.

ADVANTAGE - (I) gives bright, deep dyeing in a wide range of colors and have little or no sensitizing potential. Good color depth, grey covering power and fastness properties are obtained even in the absence of oxidizing agents (such as hydrogen peroxide).

Dwg.0/0

TECH.

alkaline earth metal (e.g. magnesium, calcium, strontium or barium), aluminum, manganese, iron, cobalt, copper, zinc or ammonium formate, carbonate, halide, sulfate, butyrate, valerate, caproate, acetate, lactate, glycolate, tartrate, citrate, gluconate, propionate, phosphate or phosphonate; 0.01-6 wt. % of an oxidizing agent, specifically hydrogen peroxide; and/or anionic, zwitterionic or nonionic surfactants.

L3 ANSWER 56 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-192435 [20] WPIDS

DNC C2001-057896

TI Dyeing composition giving deep, fast shades on keratin fibers, especially human hair, contains N-halo-imine derivative as dyeing component.

DC B07 D21 E19 E24

IN HOEFFKES, H; MOELLER, H; OBERKOBUSCH, D

PA (HENK) HENKEL KGAA

CYC 22

PI DE 19932565 A1 20010118 (200120)\* 11p

WO 2001003651 A2 20010118 (200120) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE W: AU JP US

AU 2000061543 A 20010130 (200127)

EP 1194117 A2 20020410 (200232) DE

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

ADT DE 19932565 A1 DE 1999-19932565 19990713; WO 2001003651 A2 WO 2000-EP6220 20000704; AU 2000061543 A AU 2000-61543 20000704; EP 1194117 A2 EP 2000-947919 20000704, WO 2000-EP6220 20000704

FDT AU 2000061543 A Based on WO 200103651; EP 1194117 A2 Based on WO 200103651 PRAI DE 1999-19932565 19990713

AB DE 19932565 A UPAB: 20010410

NOVELTY - A composition (A) for dyeing keratin fibers contains at least one N-halo-p-benzoquinoneimine derivative (I) as dyeing component.

DETAILED DESCRIPTION - A composition (A) for dyeing keratin fibers contains at least one N-halo-imine of formula (I) as dyeing component:

R1-R4 = H, halo, 1-4C alkyl or 1-4C alkoxy; or two adjacent groups together form a fused aromatic or heteroaromatic ring;

X = 0 or arylimine;

Y = F, Cl, Br or I.

INDEPENDENT CLAIMS are included for:

- (1) the use of (I) as dyeing components in oxidation hair dyes; and
- (2) a method for dyeing keratin fibers, involving contacting the fibers for a suitable time (e.g. ca. 30 minutes) with a dyeing composition containing (I), at least one compound (II) and conventional cosmetic components then rinsing or washing using shampoo, where (II) is selected from compounds having primary or secondary amino or hydroxy groups (i.e. primary or secondary aromatic amines, N-containing heterocycles or aromatic hydroxy compounds) and active CH compounds.

USE - (A) is especially used for dyeing human hair (claimed), but may also be used with wool, furs, feathers or fibers of materials other than keratin, e.g. cotton, jute, sisal, linen, silk, regenerated cellulose, nitro-, alkyl-, hydroxyalkyl or acetyl-cellulose, polyamide, polyacrylonitrile, polyurethane or polyester. (I) generally give orange or brown shades when used alone, but in combination with (II) may give shades from yellow via yellow-brown, orange, brown-orange, medium brown, olive green, dark brown, violet, dark violet and blue-black to black.

ADVANTAGE - (I) gives bright, deep dyeings in a wide range of colors and have little or no sensitizing potential. Good color depth, grey covering power and fastness properties are obtained even in the absence of oxidizing agents (such as hydrogen peroxide).

Dwg.0/0

TECH.

alkaline earth metal (e.g. magnesium, calcium, strontium or barium), aluminum, manganese, iron, cobalt, copper, zinc or ammonium formate, carbonate, halide, sulfate, butyrate, valerate, caproate, acetate, lactate, glycolate, tartrate, citrate, gluconate, propionate, phosphate or phosphonate; 0.01-6 wt. % of an oxidizing agent, specifically hydrogen peroxide; and/or anionic, zwitterionic or nonionic surfactants.

- L3 ANSWER 57 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 2001:222335 CAPLUS
- DN 135:76499
- Oxidation of sulfides to sulfoxides and sulfones with 30% hydrogen peroxide under organic solvent- and halogen-free conditions
- AU Sato, K.; Hyodo, M.; Aoki, M.; Zheng, X.-Q.; Noyori, R.
- CS Department of Chemistry and Research Center for Materials Science, Nagoya University, Chikusa, Nagoya, 464-8602, Japan
- SO Tetrahedron (2001), 57(13), 2469-2476 CODEN: TETRAB; ISSN: 0040-4020
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- OS CASREACT 135:76499
- AP Arom. and aliph. sulfides are oxidized to sulfoxides or sulfones in high yield with 30% hydrogen peroxide under org. solvent- and halogen-free conditions. Dialkyl and alkyl aryl sulfides are cleanly oxidized to sulfoxides using aq. hydrogen peroxide without catalysts. The best catalyst for the sulfone synthesis consists of sodium tungstate, phenylphosphonic acid, and methyltrioctylammonium hydrogen sulfate. Co-existing primary or secondary alc. or olefinic moieties are unaffected under such conditions.
- RE.CNT 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
791-28-6, Triphenylphosphine oxide
                                        1066-51-9
                                                      1707-03-5
                                                                  7664-38-2,
TT
     Phosphoric acid, uses
     RL: CAT (Catalyst use); MOA (Modifier or additive use); USES (Uses)
        (oxidn. of sulfides to sulfoxides and sulfones with 30%
       hydrogen peroxide under org. solvent-free and
        halogen-free conditions)
     59158-14-4P, Methyltrioctylammonium hydrogen sulfate
TΤ
     RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
    .USES (Uses)
        (oxidn. of sulfides to sulfoxides and sulfones with 30%
       hydrogen peroxide under org. solvent-free and
       halogen-free conditions)
     ANSWER 58 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2001:401614 CAPLUS
AN
DN
     135:121480
     Antimicrobial treatments for minimally processed cantaloupe melon
ТT
     Sapers, G. M.; Miller, R. L.; Pilizota, V.; Mattrazzo, A. M.
ΑU
     Agricultural Res. Service, Eastern Regional Res. Center, U.S. Dep.
CS
     Agriculture, Wyndmoor, PA, 19038, USA
     Journal of Food Science (2001), 66(2), 345-349
SO
     CODEN: JFDSAZ; ISSN: 0022-1147
     Institute of Food Technologists
PΒ
DT
     Journal
LA
     English
     Efficacy of decontamination treatments in reducing endogenous microbial
AB
     populations on cantaloupe and in extending fresh-cut shelf-life were
     investigated. Composite rind plug samples were washed with water or
     solns. of sodium hypochlorite, H2O2, com. detergent formulations
     contq. dodecylbenzene sulfonic acid and phosphoric
     acid, or trisodium phosphate, and surviving microbial populations
     detd. Fresh-cut cubes were prepd. aseptically from whole melons given
     similar treatments, and their visual appearance and bacterial population
     detd. during storage at 4 .degree.C. Population redns. on washed rind
     plugs were < 1 log with water, 1 to 2 logs with washing and sanitizing
     agents applied individually, and 3 logs with some sequential treatments
     with H2O2. H2O2 applied at 50 .degree.C was superior to other whole-melon
     treatments, yielding a fresh-cut shelf-life of > 2 wk.
              THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 21
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     Efficacy of decontamination treatments in reducing endogenous microbial
AB
     populations on cantaloupe and in extending fresh-cut shelf-life were
     investigated. Composite rind plug samples were washed with water or
     solns. of sodium hypochlorite, H2O2, com. detergent formulations
     contq. dodecylbenzene sulfonic acid and phosphoric
     acid, or trisodium phosphate, and surviving microbial populations
     detd. Fresh-cut cubes were prepd. aseptically from whole melons given
     similar treatments, and their visual appearance and bacterial population
     detd. during storage at 4 .degree.C. Population redns. on washed rind
     plugs were < 1 log with water, 1 to 2 logs with washing and sanitizing
     agents applied individually, and 3 logs with some sequential treatments
     with H2O2. H2O2 applied at 50 .degree.C was superior to other whole-melon
     treatments, yielding a fresh-cut shelf-life of > 2 wk.
     ANSWER 59 OF 158 CAPLUS COPYRIGHT 2003 ACS
                                                       DUPLICATE 2
L_3
     2000:420915 CAPLUS
AN
DN
     133:48977
     Hydrogen peroxide disinfectant with increased activity
TI
     Rochon, Michael J.
IN
     Virox Technologies Inc., Can.
PA
     PCT Int. Appl., 22 pp.
SO
     CODEN: PIXXD2
חידים
     Patent
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English

LA

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KIND DATE
                                         APPLICATION NO. DATE
    PATENT NO.
                     ____
                                          -----
     _____
                                        WO 1999-CA1132 19991126
                           20000622
                    A1
    WO 2000035289
PΤ
        W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
            CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
            IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
            MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
            SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
            DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
            CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                      В1
                           20020212
                                          US 1999-356345
                                                           19990719
    US 6346279
                           20010904
                                          BR 1999-15987
                                                           19991126
    BR 9915987
                      Α
                           20011010
                                          EP 1999-973389
                                                           19991126
                      A1
    EP 1139762
                      B1
                           20021002
    EP 1139762
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                           20011122
                                          AU 2000-13694
                                                           19991126
    AU 741104
                      В2
                                          CA 1999-2344471
                                                           19991126
                      С
                           20020108
    CA 2344471
                      T2
                           20021002
                                          JP 2000-587617
                                                           19991126
    JP 2002532398
    JP 3350526
                      B2
                           20021125
                                          AT 1999-973389
                                                           19991126
    AT 225128
                      Ε
                           20021015
                      Т3
                                          ES 1999-973389
                           20030416
                                                           19991126
    ES 2185428
    US 2002142051
                      A1
                           20021003
                                          US 2002-67809
                                                           20020208
PRAI US 1998-112047P
                      P
                           19981214
    US 1999-356345
                      Α
                           19990719
    WO 1999-CA1132
                      W
                           19991126
    An acidic aq. hydrogen peroxide soln. is provided, with improved
AB
    disinfectant activity. Concd. solns. preferably contain . Itoreq.8 % and
    as-used concns. contain 0.5 % peroxide. The soln. also contains from 0.1
    to 5.0 % of at least one acid compd., e.g. phosphoric and/or a
    phosphonate, with 1-5 phosphonic acid groups, and 0.02-5 % of at least one
    anionic surfactant. The surfactant is selected from C8 to C16
    alkylarylsulfonic acids, sulfonated C12 to C22 carboxylic acids, C8 to C22
    alkyl di-Ph oxide sulfonic acids, naphthalene sulfonic acids, C8 to C22
    alkylsulfonic acids, and alkali metal and ammonium salts thereof, and
    alkali metal C8 to C18 alkyl sulfates, and mixts. thereof. Most
    preferably, the soln. has an emulsifier, e.g. a salt of an alkylated di-Ph
    oxide. The soln. may also contain corrosion inhibitors and/or lower alcs.
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 5
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT
    Carboxylic acids, biological studies
    RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (C12-C22, sulfonated; activity enhancers for hydrogen
       peroxide disinfectant)
IT
    27176-87-0, Dodecylbenzene sulfonic acid
    RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (Biosoft; activity enhancer for hydrogen peroxide
       disinfectant)
    6419-19-8, Briquest 301-50A 7664-38-2, Phosphoric
IT
    acid, biological studies 9002-93-1, Triton X-405
                                                         61332-13-6,
    Dowfax
    RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (activity enhancer for hydrogen peroxide
       disinfectant)
                                          7722-84-1, Hydrogen
    1330-69-4, Dodecylbenzene sulfonate
IT
    peroxide, biological studies 25155-19-5, Naphthalenesulfonic acid
    RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
```

FAN.CNT 2

(activity enhancers for hydrogen peroxide disinfectant)

```
DUPLICATE 3
    ANSWER 60 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2000:278077 CAPLUS
AN
DN
     132:295400
     Thickened liquid hydrogen peroxide bleach compositions
ΤI
     Mercado, Hedeliza Malonzo
IN
     Colgate-Palmolive Co., USA
PΑ
SO
     PCT Int. Appl., 12 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                    KIND DATE
                                           APPLICATION NO. DATE
     PATENT NO.
                     ____
                                           -----
     -----
                                     WO 1999-US24910 19991021
                     A1 20000427
ΡI
    WO 2000023555
            AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
            CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
            MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
            DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                      BR 1999-14702
                                                           19991021
                            20010710
     BR 9914702
                       Α
                                          EP 1999-970679 19991021
                            20010816
     EP 1123375
                       Α1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI US 1998-177688
                            19981022
                     Α
    WO 1999-US24910
                      W
                            19991021
    A thickened liq. bleaching compn. is provided comprising hydrogen
AB
    peroxide; a surfactant mixt. comprising alkyl dimethylamine oxide
     and soap formed by the neutralization of a C6-C18 fatty acid with an
     alkali metal hydroxide; an electrolyte comprising an alkyl metal
     sulfate; a phosphonate stabilizer for hydrogen
    peroxide; and alkali metal hydroxide in an amt. sufficient to
     effect in-situ neutralization of the C6-C18 fatty acid to form the soap
     and also provide a pH in the range of from about 8 to 9.5.
              THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 11
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
    A thickened liq. bleaching compn. is provided comprising hydrogen
AB
    peroxide; a surfactant mixt. comprising alkyl dimethylamine oxide
     and soap formed by the neutralization of a C6-C18 fatty acid with an
     alkali metal hydroxide; an electrolyte comprising an alkyl metal
     sulfate; a phosphonate stabilizer for hydrogen
    peroxide; and alkali metal hydroxide in an amt. sufficient to
     effect in-situ neutralization of the C6-C18 fatty acid to form the soap
     and also provide a pH in the range of from about 8 to 9.5.
     61792-09-4, Pentasodium salt of diethylenetriamine penta (methylene
IT
    phosphonic acid)
     RL: MOA (Modifier or additive use); USES (Uses)
        (stabilizer; thickened liq. hydrogen peroxide
        bleach compns.)
     532-32-1, Sodium benzoate 7722-84-1, Hydrogen peroxide, uses
IT
     7757-82-6, Sodium sulfate, uses 7778-80-5, Potassium
     sulfate, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (thickened liq. hydrogen peroxide bleach compns.)
    ANSWER 61 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    2000:589878 CAPLUS
AN
     133:160846
DN
```

- TI Ready-to-use aqueous hard surface cleaning and disinfecting compositions containing hydrogen peroxide
- IN Monticello, Michael Vincent; Mayerhauser, George Robert
- PA Reckitt Benckiser Inc., USA
- SO U.S., 9 pp., Cont.-in-part of U.S. 5,891,392. CODEN: USXXAM

A2

- DT Patent
- LA English
- FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 6106774	Α	20000822	US 1999-227464	19990108
	GB 2319179	A1	19980520	GB 1996-23473	19961112
	US 5891392	Α	19990406	US 1997-928097	19970912
PRAI	GB 1996-23473	Α	19961112		

19970912

- AB The title compns. include 0.1-20% by wt. C1-6 monohydric alc., 1.0-10% by wt. glycol ether, or butoxypropanol or propoxypropanol, 0.1-12% by wt. anionic, cationic, nonionic and amphoteric surfactant, 0.1-10% by wt. hydrogen peroxide, 0.1-7% by wt. acid and to 100% by wt. water. The compn. is at an acidic pH. The compn. may include minor amts. of further conventional additives.
- RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- IT 64-17-5, Ethanol, uses 77-92-9, Citric acid, uses 79-14-1, Glycolic acid, uses 110-94-1, Glutaric acid 112-34-5, Dowanol DB 151-21-3, Sodium lauryl sulfate, uses 1643-20-5, Ammonyx LO 5329-14-6, Sulfamic acid 6915-15-7, Malic acid 7664-38-2, Phosphoric acid, uses
  - RL: MOA (Modifier or additive use); USES (Uses)
     (ready-to-use aq. hard surface cleaning and disinfecting compns. contg.
     hydrogen peroxide and)
- L3 ANSWER 62 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 2000:201116 CAPLUS

US 1997-928097

- DN 132:238745
- TI Stable compositions for removing stains from fabrics and carpets and inhibiting the resoiling of same
- IN Micciche, Robert P.; Lynch, Ann Marie; Tripathi, Uma
- PA Playtex Products, Inc., USA
- SO U.S., 5 pp. CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6043209	Α	20000328	US 1998-3272	19980106
PRAI	US 1998-3272		19980106		

- AB A compn. includes a water miscible org. solvent, a peroxygen compd., a surfactant, a polymeric or copolymeric soil resist, and a fluorinated hydrocarbon soil resist. Thus, a cleaning agent contained water 92.87, H2O2 3.00, an acrylate copolymer 0.60, Na lauryl sulfate 0.60, propylene glycol Me ether 1.00, dipropylene glycol Me ether 1.00, Na lauroyl sarcosinate 0.23, lauramine oxide 0.07, C11-15 Pareth 7 0.25, Dequest 2010 0.12, fragrance 0.15, Zoner 5180 0.03, and Surcide-D 0.08%.
- RE.CNT 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- AB A compn. includes a water miscible org. solvent, a peroxygen compd., a surfactant, a polymeric or copolymeric soil resist, and a fluorinated hydrocarbon soil resist. Thus, a cleaning agent contained water 92.87, H2O2 3.00, an acrylate copolymer 0.60, Na lauryl sulfate 0.60, propylene glycol Me ether 1.00, dipropylene glycol Me ether 1.00, Na

lauroyl sarcosinate 0.23, lauramine oxide 0.07, C11-15 Pareth 7 0.25, Dequest 2010 0.12, fragrance 0.15, Zoner 5180 0.03, and Surcide-D 0.08%.

ANSWER 63 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 2000:712940 CAPLUS

DN 133:286190

Compositions for dyeing and decoloring keratin fibers ΤI

IN Matsunaga, Kenichi

PΑ Kao Corp., Japan

Jpn. Kokai Tokkyo Koho, 7 pp. 🧦 SO

CODEN: JKXXAF

DT Patent

LΑ Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000281543	A2	20001010	JP 2000-20591	20000128
	JP 3343232	B2	20021111		
PRAI	JP 1999-21116	Α	19990129		

PRAI JP 1999-21116 Α The invention relates to a compn. for dyeing or decoloring keratin fibers while providing improved keratin fiber-conditioning effect, wherein the compn. contains (1) an oxidizing agent (2) a nonionic surfactant contg. C8-36 branched acyl, branched alkyl, or branched alkenyl group, and having HLB of 2-12, wherein the compn. has a pH of 7-12. A hair dye 1st agent contg. monomethyl branched isostearyl glyceryl ether (HLB = 5.3) 1.5, pentaerythritol glyceryl isostearyl ether (HLB = 9) 4, toluene-2,5-diamine 0.5, 5-amino-o-cresol 0.6, 28 % ammonia 6, ethanol 15, propylene glycol 10, oleic acid 6, oleic acid diethanol amide 8, polyoxyethylene octyldodecyl ether 10, ammonium chloride q.s. to pH = 9.5, sodium sulfite 0.5, tetrasodium edetate 0.1, and water q.s. to 100 %, and a 2nd agent contg. cetanol 2, glycerin 1, sodium alkyl sulfate 1,

H202 6, Me paraben 0.1, phosphoric acid q.s.

to pH = 3.5, and water q.s. to 100 % were prepd.

The invention relates to a compn. for dyeing or decoloring keratin fibers AB while providing improved keratin fiber-conditioning effect, wherein the compn. contains (1) an oxidizing agent (2) a nonionic surfactant contg. C8-36 branched acyl, branched alkyl, or branched alkenyl group, and having HLB of 2-12, wherein the compn. has a pH of 7-12. A hair dye 1st agent contg. monomethyl branched isostearyl glyceryl ether (HLB = 5.3) 1.5, pentaerythritol glyceryl isostearyl ether (HLB = 9) 4, toluene-2,5-diamine 0.5, 5-amino-o-cresol 0.6, 28 % ammonia 6, ethanol 15, propylene glycol 10, oleic acid 6, oleic acid diethanol amide 8, polyoxyethylene octyldodecyl ether 10, ammonium chloride q.s. to pH = 9.5, sodium sulfite 0.5, tetrasodium edetate 0.1, and water q.s. to 100 %, and a 2nd agent contg. cetanol 2, glycerin 1, sodium alkyl sulfate 1,

H202 6, Me paraben 0.1, phosphoric acid q.s. to pH = 3.5, and water q.s. to 100 % were prepd.

- ANSWER 64 OF 158 CAPLUS COPYRIGHT 2003 ACS L3
- 2000:150487 CAPLUS AN
- 132:180289 DN
- Preparation of oximes using hydrogen peroxide stabilizers ΤĮ
- Saizawa, Chiharu; Nomura, Toshihiro; Nishimura, Yoshio; Matsuya, Naoko IN
- Mitsubishi Gas Chemical Co., Ltd., Japan PA
- Jpn. Kokai Tokkyo Koho, 4 pp. SO

CODEN: JKXXAF

- Patent DT
- Japanese LA

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				<del>-</del>	
ΡI	JP 2000072738	A2	20000307	JP 1998-247281	19980901
PRAI	JP 1998-247281		19980901		

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os
     CASREACT 132:180289
     Oximes are prepd. by treatment of ketones, quinones, or aldehydes with NH3
AB
     and H2O2 contg. 1-1000 ppm (based on H2O2) alkali metal-free stabilizers
     in the presence of titanosilicate catalysts. MEK was autoclaved with aq.
     NH3, titanosilicate, and aq. H2O2 cong. 30 ppm H3PO4 at 75.degree. in
     Me3COH to give 80.9% MEK oxime.
     oxime prepn titanosilicate catalyst; ammoximation aldehyde ketone quinone
ST
     titanosilicate catalyst; MEK oxime prepn ammoximation; phosphoric
     acid stabilizer hydrogen peroxide
     ammoximation; hydrogen peroxide ammonia ammoximation catalyst
     titanosilicate
     Chelating agents
IT
        (sulfonic acid-type; prepn. of oximes by ammoximation using
       hydrogen peroxide stabilizers)
     6419-19-8, Dequest 2000
TT
     RL: NUU (Other use, unclassified); USES (Uses)
        (prepn. of oximes by ammoximation using hydrogen
       peroxide stabilizers)
     2466-09-3, Pyrophosphoric acid 7664-38-2, Phosphoric
TT
     acid, uses 10124-31-9, Ammonium phosphate 22690-73-9, Ammonium
     pyrophosphate
     RL: NUU (Other use, unclassified); USES (Uses)
        (stabilizer; prepn. of oximes by ammoximation using hydrogen
       peroxide stabilizers)
    ANSWER 65 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     2000:835429 CAPLUS
AN
     133:351817
DN
     Cleaning formulation for textile laundering
ΤI
IN
    Michel, Jacques; Chevalier, Olivier
    Yplon S.A., Belg.
PA
     Brit. UK Pat. Appl., 20 pp.
SO
     CODEN: BAXXDU
DT
    Patent
LA
    English
FAN.CNT 1
                                      APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
     ______
                                          _____
    GB 2346153 A1 20000802
GB 2346153 B2 20030423
                                         GB 2000-2099
                                                           20000131
    EP 1038947 A2 20000927
EP 1038947 A3 20020102
                                         EP 2000-300750 20000131
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI GB 1999-1957
                      Α
                           19990129
    A formulation having pH <6 comprises a surface active agent, H2O2, and a
     pH jump system contq. a borate and polyhydroxy compd. On diln. it forms
     an alk. soln. suitable for peroxide bleaching. Thus, a heavy duty laundry
     liq. was prepd. from H2O 39.28, borax decahydrate 5.0, NaOH 1.2, sorbitol
     15.0, Aromox BW220 (C12 amine oxide surfactant) 8.33, Lutensol AO 7 12.5,
     Lutensol AO 3 5.0, Irganox L 134 (amine free radical scavenger) 0.05,
     Dequest 2060S 0.5, peroxclean 12.14, and Durazym 16.0L 1.00 parts.
IT
     Sulfonates
     RL: TEM (Technical or engineered material use); USES (Uses)
        (alkanesulfonates; cleaning formulation for textile laundering contg.
        surface active agent and hydrogen peroxide and pH
        jump system)
IT
     Sulfonic acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (arenesulfonic, salts; cleaning formulation for textile laundering
        contg. surface active agent and hydrogen peroxide
        and pH jump system)
IT
     Enzymes, uses
       Sulfonates
```

RL: MOA (Modifier or additive use); USES (Uses) (cleaning formulation for textile laundering contg. surface active agent and hydrogen peroxide and pH jump system) 50-70-4, Sorbitol, uses 1300-72-7, Sodium xylene sulfonate IT 12045-88-4, 1303-96-4, Borax decahydrate 11128-98-6, Ammonium borate Tincalconite (B4Na2O7.5H2O) 15827-60-8, Dequest 2060S 27176-87-0, Dodecyl 22042-96-2, **Dequest** 2066 26183-44-8 305807-97-0, Irganox L 134 benzene sulfonic acid RL: TEM (Technical or engineered material use); USES (Uses) (cleaning formulation for textile laundering contg. surface active agent and hydrogen peroxide and pH jump system) L3 ANSWER 66 OF 158 CAPLUS COPYRIGHT 2003 ACS 2000:749450 CAPLUS AN DN 133:283719 Purification of aqueous hydrogen peroxide solutions by passage through TI silica-bound complexing agents Guilard, Roger; Denat, Franck; Pernelet, Olivier; Tripier, Raphael; Ledon, IN Henry; Devos, Catherine L'Air Liquide Societe Anonyme pour L'Etude et l'Exploitation des PA ProcedesGeo, Fr. SO Fr. Demande, 35 pp. CODEN: FRXXBL DTPatent LA French FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----<del>------</del> -----FR 2789380 A1 20000811 FR 1999-1499 19990209 B1 20010309 FR 2789380 PRAI FR 1999-1499 19990209 Silica qel-supported coordinative chelating nitrogen compds. for prepn. of ultrapure solns. of hydrogen peroxide are of general formula A1-R1-Si(X1X2)-O-(silica qel), in which SiX1X2 is a bridging or coupling group [X1 and X2 = H, C1-4-alkyl, halogen, or OR2 (OR2 = H or C1-4-alkyl or bound to silica gel)]; R1 is a divalent satd. or unsatd. C1-10-hydrocarbylene which can be substituted or interrupted by divalent structures, such as O, S, -O-C(:O)-, -N(R3)-C(:O)-, or -N(R3)-, in which R6 = H, C1-6-aliph, benzyl, or phenethyl (or substituted with Cl, OH, or OR4 (R4 = C1-4-alkyl, benzyl, or phenethyl)); and A1 is the chelating group (e.g., a polyazamacrocycle or a nitrogen-substituted aliph. chain, contq. addnl. coordinative functional groups). The chelating or sequestering agents can be either synthesized by attaching the silyl coupling agent to the nitrogen macrocycle or complexing agent followed by grafting onto end-capped silica gel, or by treating the silica gel with the coupling agent followed by grafting the nitrogen macrocycle or complexing agent onto the treated silica gel. Treatment of ag. hydrogen peroxide through adsorbent beds results in H2O2 solns. contg. .ltoreq.10 ppb of heavy metal ions. 7429-90-5, Aluminum, processes 7439-89-6D, Iron, cations, processes IT 7440-31-5D, Tin, cations, processes 14265-44-2, Phosphate, processes 14797-55-8, Nitrate, processes 14808-79-8, Sulfate, processes 22537-23-1, Aluminum(3+), processes RL: REM (Removal or disposal); PROC (Process) (removal of; purifn. of aq. hydrogen peroxide solns. by passage through silica-bound complexing agents) 1184-84-5DP, Vinylsulfonic acid, reaction products with (3-chloropropyl)triethoxysilane, chlorotrimethylsilane, and silica gel, 1746-03-8DP, Phosphonic acid, vinyl-, reaction products with (3-chloropropyl)triethoxysilane, chlorotrimethylsilane, and silica gel, derivs. 299199-34-1DP, reaction products with silane coupling agents, silane end-capping agents, and silica gel RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent) (sequestering agents; purifn. of aq. hydrogen peroxide solns. by passage through silica-bound complexing agents) ANSWER 67 OF 158 WPIDS (C) 2003 THOMSON DERWENT L32001-040882 [05] WPIDS AN DNC C2001-011805 N2001-030511 DNN Paper product useful in treatment of illness or injury, waste disposal, TIfood packaging, storage is impregnated with a chemical material. חת D22 E19 E37 F09 P34 AAMODT, J A; COLVIN, J W; AAMODT, J; COLVIN, J IN (AAMO-I) AAMODT J; (AAMO-I) AAMODT J A; (COLV-I) COLVIN J W; (COLV-I) PA COLVIN J CYC 90 WO 2000066185 A1 20001109 (200105)\* EN 36p PΙ RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW AU 2000044940 A 20001117 (200111) US 6325969 B1 20011204 (200203) US 2002110483 A1 20020815 (200256) ADT WO 2000066185 A1 WO 2000-US11263 20000427; AU 2000044940 A AU 2000-44940 20000427; US 6325969 B1 US 1999-302937 19990430; US 2002110483 A1 Cont of US 1999-302937 19990430, US 2001-6192 20011203 AU 2000044940 A Based on WO 200066185 FDT19990430; US 2001-6192 20011203 PRAI US 1999-302937 WO 200066185 A UPAB: 20010124 NOVELTY - A method for impregnating a porous paper product comprises exposing the porous product, which has pores and a surface to at least one chemical. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following: (A) method for sterilizing an area comprising the steps of: (a) impregnating a porous paper product with a chemical material, (b) placing the product in the area and (c) causing reaction of the impregnated chemical material to produce a biocidal compound; (B) a composition producing chlorine dioxide comprising a porous paper product impregnated with an acid or metal salt and at least one sodium chlorite and sodium chlorate; and (C) a composition producing a peracid comprising a porous paper product impregnated with hydrogen peroxide and an acid. USE - In a variety of sources e.g. wood pulp, kenaf, flax or hemp (claimed). Provides sterile environment for activities such as food packaging or storage, treatment of illness or injury or waste disposal; in industries and household tasks. ADVANTAGE - Inhibits the growth of microorganisms, cheap and easy to manufacture. The diffusion of volatile biocidal chemical out of pores in the paper creates no growth zone on and immediately surrounds the impregnated paper. Cuts down on noxious odors and danger of infection to waste-handlers. Conveys odor controlling, biocidal and chlorine dioxide destruction properties. Dwg.0/1 TECH. with sodium chlorite and acetic acid. The porous paper product in the form of sheets or pellets is impregnated with hydrogen peroxide and aqueous d-limonene (5%) or an acid (preferably acetic acid (99%), propionic acid, citric acid (50%), benzoic acid, phosphoric acid, lactic acid, butyric acid, pentenoic acid, succinic acid, glutaric acid, sorbic acid and glycolic acid). The

paper is impregnated with. . . form. The step of exposing the surface of the product to at least one chemical comprises exposing the surface to hydrogen peroxide or metal salt (preferably ferric chloride or ferric sulfate) and an acid or d-limonene or at least one chemical (preferably potassium hydroxide, sodium sulfite and sodium bisulfite) with chlorine. . .

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L3 ANSWER 68 OF 158 WPIDS (C) 2003 THOMSON DERWENT AN 2001-015725 [02] WPIDS
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DNC C2001-004171

An anti-tartar dental product comprising a combination of a water soluble calcium phosphate at a pH of less than 7 and separately stored combination of an alkaline material and an anti-caries fluoride ion source with a pH of more than 7.5.

DC B05 D21 E19 E37

IN BARROW, S R; LEE, G J; WILLIAMS, D R; ZIEMKIEWICZ, A G; BARROW, S; WILLIAMS, D; ZIEMKIEWICZ, A

PA (LEEG-I) LEE G J; (UNIL) UNILEVER HOME & PERSONAL CARE USA DIV CO; (CHEO) CHESEBROUGH PONDS USA CO DIV CONOPCO INC; (HIND-N) HINDUSTAN LEVER LTD; (UNIL) UNILEVER NV; (UNIL) UNILEVER PLC

CYC 91

PI WO 2000062749 A1 20001026 (200102)\* EN 31p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

AU 2000034326 A 20001102 (200107) US 6207139 B1 20010327 (200119) US 6248310 B1 20010619 (200137)

EP 1178773 A1 20020213 (200219) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

ADT WO 2000062749 A1 WO 2000-EP2758 20000328; AU 2000034326 A AU 2000-34326 20000328; US 6207139 B1 Provisional US 1999-129779P 19990416, US 1999-395064 19990913; US 6248310 B1 Provisional US 1999-129779P 19990416, Div ex US 1999-395064 19990913, US 2000-538564 20000329; EP 1178773 A1 EP 2000-912656 20000328, WO 2000-EP2758 20000328

FDT AU 2000034326 A Based on WO 200062749; EP 1178773 A1 Based on WO 200062749 PRAI US 1999-129779P 19990416; US 1999-395064 19990913; US 2000-538564 20000329

AB WO 200062749 A UPAB: 20010124

NOVELTY - An anti-tartar dental product comprising a combination of a water soluble calcium phosphate at a pH of less than 7 and separately stored combination of an alkaline material and an anti-caries fluoride ion source with a pH of more than 7.5, is new.

DETAILED DESCRIPTION - An anti-tartar dental product comprising a container, an oral preparation of a formulation comprising 0.01 to 30% of a water soluble calcium phosphate and/or monolithic combination of water soluble calcium and phosphate salts at a pH of less than 7 and a composition including 0.01 to 30% of an alkaline material and an anti-caries fluoride ion source with a pH of greater than 7.5 stored separately from the first composition, and instructions for use, is new.

An INDEPENDENT CLAIM is also included for a method for controlling dental tartar comprising brushing the teeth with the product.

ACTIVITY - Antimicrobial.

The first component typically comprised glycerin (40%), pluronic F-127 (20%), monocalcium phosphate monohydrate (1.6%), 35% hydrogen peroxide (4.285%), phosphoric acid (0.4%), FD and C blue no.1 (0.01%) and water. The second component typically comprised 70% sorbitol (47%), hydrated silica (15%), sodium hydrogen carbonate (10%), sylox 15X (6%), polyethylene glycol 1450 (5%), ethanol (2.84%), sodium lauryl sulfate (2.98%), flavor (1.1%),

cellulose gum (0.8%), sodium saccharin (0.54%), menthol (0.5%), sodium fluoride (0.44%), titanium dioxide (0.30%) and water. Use of the products reduced calculus formation by up to 44%. MECHANISM OF ACTION - None given. USE - The composition is useful for controlling dental tartar. Dwg.0/0 the product. ACTIVITY - Antimicrobial. The first component typically comprised glycerin (40%), pluronic F-127 (20%), monocalcium phosphate monohydrate (1.6%), 35% hydrogen peroxide (4.285%), phosphoric acid (0.4%), FD and C blue no.1 (0.01%) and water. The second component typically comprised 70% sorbitol (47%), hydrated silica (15%),. TECH. . pH of the second composition is preferably 7.2 to 11. The pH of the first composition results from inclusion of hydrogen peroxide , inorganic acids and/or 2-20C carboxylic acids. The monolithic combination of water soluble calcium salts is preferably calcium chloride, calcium sulfate or calcium acetate and the respective phosphate salts are preferably sodium phosphate, ammonium phosphate or sodium ammonium phosphate. The composition. ANSWER 69 OF 158 WPIDS (C) 2003 THOMSON DERWENT 2001-069699 [08] WPIDS DNC C2001-019276 N2001-052662 Manufacture of conductive polymeric nanocomposite for batteries, involves performing oxidative polymerization of reaction mixture containing layered silicate, to form composite having specific conductivity. A25 A85 E19 L03 U11 U12 LIAO, C; LIN, L K (INTE-N) IND TECHNOLOGY RES INST; (KOGY-N) ZH KOGYO GIJUTSU KENKYUHIN 3 A 20001024 (200108)\* 5p US 6136909 DE 19930947 A1 20001130 (200108) JP 2001011310 A 20010116 (200119) 5p DE 19930947 C2 20010531 (200130) B2 20010711 (200140) 5p JP 3187025 ADT US 6136909 A US 1999-334633 19990617; DE 19930947 A1 DE 1999-19930947 19990705; JP 2001011310 A JP 1999-219879 19990803; DE 19930947 C2 DE 1999-19930947 19990705; JP 3187025 B2 JP 1999-219879 19990803 FDT JP 3187025 B2 Previous Publ. JP 2001011310 PRAI TW 1999-108290 19990520 6136909 A UPAB: 20010207 NOVELTY - A reaction mixture comprising water, an aniline monomer, a protonic acid, an oxidizing agent and a layered silicate is obtained. The mixture is subjected to oxidative polymerization, to form a nanocomposite having layered silicate dispersed in a polymeric matrix of polyaniline. The conductivity of the nanocomposite is 0.1 S/cm. DETAILED DESCRIPTION - A reaction mixture comprising water, an aniline monomer, a protonic acid, an oxidizing agent and a layered silicate is obtained. The silicate is subjected to an acid treatment or is intercalated with polyethylene glycol. The reaction mixture is subjected to oxidative polymerization, to form a nanocomposite having layered

AB

L3

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DC IN

PA CYC

PΙ

DNN

of the nanocomposite is 0.1 S/cm. USE - The nanocomposite is used for batteries, displays, optics, sensors, light emitting diodes and in the aeronautical industry.

ADVANTAGE - A highly conductive polymeric nanocomposite containing layered silicate is obtained. Stiffness, strength and heat resistance of the nanocomposite are enhanced. Moisture absorption, flammability and permeability of the nanocomposite are reduced. Dwq.0/2

silicate dispersed in a polymeric matrix of polyaniline. The conductivity

TECH.

of silicon fluoride, sodium fluoride and/or lithium fluoride. The fluoromica is treated with sulfuric acid, hydrochloric acid, nitric acid or phosphoric acid.

Preferred Oxidizing Agent: The oxidizing agent is ammonium persulfate, ferric chloride, ferrous chloride or hydrogen peroxide

Preferred Protonic Acid: The protonic acid is hydrochloric acid, sulfuric acid, phosphoric acid, organic sulfonic acid or organic phosphorous-containing acids.

TECHNOLOGY FOCUS - POLYMERS - Preferred Glycol: The molecular weight of polyethylene glycol is 100-50000.

Preferred Monomer: The aniline monomer is aniline,. . .

L3 ANSWER 70 OF 158 WPIDS (C) 2003 THOMSON DERWENT

AN 2001-183908 [19] WPIDS

DNC C2001-055186

Dyeing composition for keratin fibers, especially human hair, containing xanthene derivative dye, e.g. pyrogallol red, giving strong, fast shades even in the absence of oxidizing agents.

DC A60 B07 D21 E19 E23 F06

IN MEINIGKE, B; MOELLER, H

PA (HENK) HENKEL KGAA

CYC 31

PI DE 19926377 A1 20001214 (200119)\* 13p

WO 2000076466 A1 20001221 (200119) DE

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU BR CA CN CZ HU JP NO PL RU SK US VN

AU 2000058106 A 20010102 (200121)

ADT DE 19926377 A1 DE 1999-19926377 19990610; WO 2000076466 A1 WO 2000-EP5044 20000602; AU 2000058106 A AU 2000-58106 20000602

FDT AU 2000058106 A Based on WO 200076466

PRAI DE 1999-19926377 19990610

AB DE 19926377 A UPAB: 20010405

NOVELTY - A composition (A) for dyeing keratin fibers contains a 9-phenyl-xanthene derivative (I) or its salt as dyeing component.

DETAILED DESCRIPTION - A composition (A) for dyeing keratin fibers contains at least one xanthene derivative of formula (I) or its salt as dyeing component.

R1 = H, 1-4C carboxyl (sic) or sulfo;

R2-R5 = H, 1-4C alkyl, 1-4C alkoxy or OH;

(i) X1 = OH (optionally in alkali metal, alkaline earth metal or ammonium salt form); and

X2 = 0; or

(ii) X1 = amino (optionally mono- or disubstituted by methyl or forming a fused 5-7 membered ring in combination with R2 and/or R3); and X2 = -N+A1A2.U-;

A1, A2 = H or Me; or form a fused 5-7 membered ring in combination with R4 and/or R5;

U- = 1 equivalent of a halide, sulfate, sulfonate or carboxylate anion.

INDEPENDENT CLAIMS are included for:

- (i) the use of (I) or their salts as dyeing components in hair-dyeing compositions; and
- (ii) a method for dyeing keratin fibers, involving applying a composition containing (a) (I) (or its salt), at least one compound (II) having primary or secondary amino, OH or active CH groups and conventional cosmetic components to the fibers, leaving the composition in contact with the fibers for a suitable time (usually ca. 30 minutes) and rinsing or shampooing. (II) is selected from primary or secondary aliphatic amines, N-containing heterocycles, aminoacids, oligopeptides formed from 2-9 aminoacids, aromatic hydroxy compounds and active CH compounds.

USE - For dyeing keratin fibers, especially human hair (claimed), but

also e.g. wool, skins or feathers. (I) may also be applicable to the dyeing of other natural fibers (e.g. cotton, jute, sisal, linen or silk), modified natural fibers (e.g. regenerated cellulose or nitro-, alkyl-, hydroxyalkyl- or acetyl cellulose) or synthetic fibers (e.g. polyamide, polyacrylonitrile, polyurethane or polyester). (I) generally give red-orange, red-brown or violet shades when used alone, but in combination with (II) may give orange, red, brown-orange, medium brown, violet, dark violet, blue-black or black colorations.

ADVANTAGE - (I) give a wide range of bright, deep colorations, even in the absence of oxidizing agents. The dyeings have good greyness covering and fastness properties (at least comparable with those obtained using conventional oxidation dyes), e.g. good light-, wash- and rub-fastness.

Dwg.0/0

TECH.

%); salts selected from alkali metal, alkaline earth metal, aluminum,
manganese, iron, cobalt, copper, zinc or ammonium formates, carbonates,
halides, sulfates, butyrates, valerates, caproates, acetates,
lactates, glycolates, tartrates, citrates, gluconates, propionates,
phosphates and phosphonates; oxidizing agents, specifically
hydrogen peroxide, at 0.01-6 wt. % based on the
ready-for-use solution; and/or anionic, zwitterionic or nonionic
surfactants.
The formulation may contain a. . .

L3 ANSWER 71 OF 158 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 4

AN 1999:670046 CAPLUS

DN 131:276767

TI Compositions containing peroxides for lightening and highlighting hair

N Newell, Gerald; Fowler, Margie

PA Helene Curtis, Inc., USA

SO U.S., 6 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

RE.CNT 6

ran.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	US 5968486	Α	19991019	US 1997-854829	19970512
PRAI	US 1997-854829		19970512		

There is described a shampoo compn. for lightening and highlighting hair which comprises (1) a peroxygen compd; and (2) an anionic sulfonate; said compn. having a pH less than 5. A method for lightening and highlighting hair comprises: (1) applying water to the hair; (2) applying to the hair a lightening and highlighting effective amt. of the above; (3) lathering; and (4) rinsing the hair with water. A hair lightening prepn. (pH 3) contained Polyquaternium-10 0.525, Polymer JR 30M 0.3, Na C14-16 olefin sulfonate 35, lauryl alc. 0.5, lauramine oxide 3.7, phosphoric acid 1, DMDM hydantoin 0.1, NaCl 0.8,

fragrances 0.6, **H2O2** (35 %) 4.6, and water q.s. to 100 %.
T 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

There is described a shampoo compn. for lightening and highlighting hair which comprises (1) a peroxygen compd; and (2) an anionic sulfonate; said compn. having a pH less than 5. A method for lightening and highlighting hair comprises: (1) applying water to the hair; (2) applying to the hair a lightening and highlighting effective amt. of the above; (3) lathering; and (4) rinsing the hair with water. A hair lightening prepn. (pH 3) contained Polyquaternium-10 0.525, Polymer JR 30M 0.3, Na Cl4-16 olefin sulfonate 35, lauryl alc. 0.5, lauramine oxide 3.7, phosphoric acid 1, DMDM hydantoin 0.1, NaCl 0.8, fragrances 0.6, H2O2 (35 %) 4.6, and water q.s. to 100 %.

IT Sulfonates

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

```
(1-alkene; hair-lightening prepns. contg. hydrogen
       peroxide and olefin sulfonates)
     Sulfonic acids, biological studies
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (C14-16-1-alkenesulfonic, sodium salts; hair-lightening prepns. contg.
       hydrogen peroxide and olefin sulfonates)
    Hair preparations
IT
        (bleaches; hair-lightening prepns. contg. hydrogen
       peroxide and olefin sulfonates)
     1643-20-5, Lauramine oxide
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (foam enhancer; hair-lightening prepns. contg. hydrogen
       peroxide and olefin sulfonates)
     7722-84-1, Hydrogen peroxide, biological studies
TΤ
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (hair-lightening prepns. contg. hydrogen peroxide
       and olefin sulfonates)
     7664-38-2, Phosphoric acid, biological studies
IT
     7664-93-9, Sulfuric acid, biological studies
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (pH adjuster; hair-lightening prepns. contg. hydrogen
       peroxide and olefin sulfonates)
     112-53-8, Lauryl alcohol
IT
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (viscosity enhancer; hair-lightening prepns. contg. hydrogen
       peroxide and olefin sulfonates)
    ANSWER 72 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1999:811317 CAPLUS
DN
    132:50891
     Polyester resin compositions
TI
    Okamoto, Chihiro; Taniguchi, Shunro
IN
PA
     Kuraray Co., Ltd., Japan
SO
     PCT Int. Appl., 59 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
    Japanese
FAN.CNT 1
                                          APPLICATION NO. DATE
    PATENT NO.
                   KIND DATE
                                          -----
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    WO 9965987
                                          WO 1998-JP2627 19980615
                    A1 19991223
PΙ
        W: AU, CA, CN, KR, NO, SG, US
        RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE
                           19991223
                                          CA 1998-2334665 19980615
     CA 2334665
                      AA
                                          AU 1998-76752
                                                           19980615
    AU 9876752
                     A1
                           20000105
    AU 750299 B2
EP 1111006 A1
                           20020718
                                          EP 1998-924624
                                                           19980615
                           20010627
        R: CH, DE, FR, GB, IT, LI, NL, SE
                B1
                                          US 2000-719174
                                                           20001215
     US 6429243
                           20020806
                           19980615
PRAI WO 1998-JP2627
                     Α
    A polyester resin compn. (A) comprising a polyethylene terephthalate
     copolymer comprising 5 to 40 % by mole of naphthalenedicarboxylic acid
     units (copolymer PET), a cobalt compd. and/or a manganese compd., an
     olefin polymer, and a predetd. amt. of a compatibilizing agent; and
     another polyester resin compn. (B) contg. predetd. amts. of a cobalt
     compd. and a manganese compd. in the copolymer PET. The compns. are
     excellent in resistance to hydrogen peroxide, flavor barrier properties,
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(Uses)

gas barrier properties, heat sealability, and mech. properties such as elongation and strength, so that they can be utilized in various applications including packaging materials for containers for beverages contg. a perfume component, such as fruit juice beverages. THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 13 ALL CITATIONS AVAILABLE IN THE RE FORMAT 127-09-3, Sodium acetate 2180-18-9, Manganese acetate IT Cobalt acetate 7664-38-2, Phosphoric acid, uses 7785-87-7, Manganese sulfate 10124-43-3, Cobalt sulfate RL: MOA (Modifier or additive use); USES (Uses) (for prepg. polyester resin compns. excellent in resistance to hydrogen peroxide, flavor barrier properties, gas barrier properties, heat sealability, and mech. properties) ANSWER 73 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 AN 1999:614071 CAPLUS DN 131:244857 Method for gently bleaching fabrics TIJosa, Jaume; De Jorge, Elisabet; Arranz, Adolf IN Henkel Kommanditgesellschaft Auf Aktien, Germany PA SO PCT Int. Appl., 15 pp. CODEN: PIXXD2 DT Patent LA German FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ----------\_\_\_\_\_ WO 1999-EP1411 19990304 WO 9947632 A1 19990923 PΤ W: CZ, HU, JP, PL, SK, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE 19991007 DE 1998-19810885 19980313 **A1** DE 19810885 EP 1999-907595 19990304 A1 20001227 EP 1062313 R: AT, BE, DE, ES, FR, GB, IT, NL JP 2000-536815 19990304 JP 2002506922 T2 20020305 PRAI DE 1998-19810885 A 19980313 W 19990304 WO 1999-EP1411 The invention relates to a method for gently bleaching textile fabrics, AB esp. coloreds and delicates, by bringing them into contact with aq. prepns. contq. hydrogen peroxide. The method is characterized in that the agents are free of heavy metal and/or chloride ions. The absence of these ions prevents pitting of the metal walls of the washing machine. Sulfates are used instead of chlorides and red dyes are used instead of blue dyes to eliminate heavy metal ions in the bleaching agents. Optionally, the aq. bleaching agents contain N-, P-, or I-contg. inhibitors. THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 7 ALL CITATIONS AVAILABLE IN THE RE FORMAT Amine oxides IT RL: NUU (Other use, unclassified); USES (Uses) (phosphonic acid derivs.; hydrogen peroxide bleaching of colored delicate fabrics in absence of heavy metal and(or) chloride ions) 13598-36-2D, Phosphonic acid, amine oxide derivs. IT RL: NUU (Other use, unclassified); USES (Uses) (Sequion; hydrogen peroxide bleaching of colored delicate fabrics in absence of heavy metal and (or) chloride ions) 7487-88-9, Magnesium sulfate, uses 7647-14-5, 139-13-9 IT Sodium chloride, uses 7790-28-5, Sodium periodate 13598-36-2, Phosphonic acid RL: NUU (Other use, unclassified); USES (Uses) (hydrogen peroxide bleaching of colored delicate fabrics in absence of heavy metal and(or) chloride ions)

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ANSWER 74 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1999:326022 CAPLUS
DN
     130:353959
    O-substituted N, N-diacylhydroxylamine bleach activators and compositions
ΤI
    bleaching soiled fabrics and dishware
    Miracle, Gregory Scot; Dykstra, Robert Richard
IN
    The Procter & Gamble Company, USA
PA
SO
     PCT Int. Appl., 45 pp.
    CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
                    KIND DATE
                                          APPLICATION NO. DATE
    PATENT NO.
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     _____
                    A2 19990520
                                          WO 1998-US23767 19981109
PΤ
    WO 9924537
                     A3 19990729
    WO 9924537
        W: BR, CA, CN, JP, MX, US
        RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
            PT, SE
                                          CA 1998-2309592 19981109
                           19990520
                      AA
     CA 2309592
                                          EP 1998-958488
                                                          19981109
                      A2
                           20000906
    EP 1032631
                      В1
                           20021023
    EP 1032631
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
                                                          19981109
                      Α
                                          BR 1998-12782
    BR 9812782
                           20001003
                                                          19981109
                                          JP 2000-520533
                      T2
                           20011120
    JP 2001522866
                                          AT 1998-958488
                                                          19981109
                      E
                           20021115
    AT 226622
                           20010918
                                          US 2000-554203
                                                          20000510
    US 6291413
                      В1
                     A1
                                          US 2001-861133
                                                          20010518
    US 2001046953
                           20011129
    US 6423676
                      B2
                           20020723
                      B1
                                          US 2002-154005 20020523
    US 6514925
                           20030204
                      P 19971110
PRAI US 1997-64973P
    WO 1998-US23767 W
                           19981109
    US 2000-554203 A1
                           20000510
                     A3
                           20010518
    US 2001-861133
OS
    MARPAT 130:353959
    The title activators R1CON(OR2)CO[CO]eXfR3 (X = O, NR16 and S; e = 0 or 1;
AB
     f = 0 or 1; R16 = H and linear or branched, satd. or unsatd. C1-4-alkyl;
     and R1 = Ph or linear or branched chain, satd. or unsatd. C7-13-alkyl; R2
     = branched or unbranched, satd. or unsatd. C1-10-alkyl; and R3 = linear or
    branched chain, satd. or unsatd. C1-12-alkyl) with hydrophilic/hydrophobic
     groups are prepd. for bleach compns. based on H2O2. An example tile
     cleaner contained bleach activator 5.0, H202 10, LAS 5.0,
     ethoxylated alkyl sulfate salt 1.5, amine oxide 1.0,
    Dequest 2060 0.5, citric acid 6.0%, HCl, and the balance water.
     The title activators R1CON(OR2)CO[CO]eXfR3 (X = O, NR16 and S; e = 0 or 1;
AB
     f = 0 or 1; R16 = H and linear or branched, satd. or unsatd. C1-4-alkyl;
     and R1 = Ph or linear or branched chain, satd. or unsatd. C7-13-alkyl; R2
     = branched or unbranched, satd. or unsatd. C1-10-alkyl; and R3 = linear or
    branched chain, satd. or unsatd. C1-12-alkyl) with hydrophilic/hydrophobic
     groups are prepd. for bleach compns. based on H2O2. An example tile
     cleaner contained bleach activator 5.0, H2O2 10, LAS 5.0,
     ethoxylated alkyl sulfate salt 1.5, amine oxide 1.0,
     Dequest 2060 0.5, citric acid 6.0%, HCl, and the balance water.
    ANSWER 75 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1999:384070 CAPLUS
AN
DN
     131:33273
     Carpet cleaning powders containing active oxygen sources
ΤI
     Jonke, Hermann; Ditze, Alexander; Poethkow, Daniela; Schaffrath, Norbert;
IN
     Ifland, Werner
     Henkel K.-G.a.A., Germany
PA
so
     Ger. Offen., 8 pp.
     CODEN: GWXXBX
     Patent
DТ
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LA
    German
FAN.CNT 1
                                        APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
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                                          -----
                                                          _____
     -----
                                         DE 1997-19753700 19971204
                           19990610
PΙ
     DE 19753700
                     A1
                                          WO 1998-EP7616
                                                           19981125
                           19990617
    WO 9929817
                     A1
        W: JP, US
         RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE
                                          EP 1998-965183
                                                           19981125
                           20000920
     EP 1036148
                      Α1
        R: AT, BE, DE, ES, FR, GB, IT, NL
     JP 2001526302 T2
                           20011218
                                          JP 2000-524394
                                                           19981125
PRAI DE 1997-19753700 A
                           19971204
                    W
                           19981125
     WO 1998-EP7616
     The title powders, which clean entire surfaces or stained spots without
AB
     damaging the carpet and have good storage stability, contain powd.
     cellulose, active O sources, and no wood flour. An aq. slurry of powd.
     cellulose 43, H202 0.9, fatty alkyl sulfate 0.85, EtOH
     3, and absorbent flocs 0.55% (plus phosphonic acid and
     perfume) removed red wine, coffee, and blueberry juice stains completely
     from polyamide and wool carpets when applied at 100 and 200 g/m2, resp.;
     vs. no removal in the absence of H2O2.
    The title powders, which clean entire surfaces or stained spots without
AB
     damaging the carpet and have good storage stability, contain powd.
     cellulose, active O sources, and no wood flour. An aq. slurry of powd.
     cellulose 43, H2O2 0.9, fatty alkyl sulfate 0.85, EtOH
     3, and absorbent flocs 0.55% (plus phosphonic acid and
    perfume) removed red wine, coffee, and blueberry juice stains completely
     from polyamide and wool carpets when applied at 100 and 200 g/m2, resp.;
     vs. no removal in the absence of H2O2.
    ANSWER 76 OF 158 WPIDS (C) 2003 THOMSON DERWENT
L3
     1999-570607 [48]
                      WPIDS
AN
DNN N1999-420347
                       DNC C1999-166472
    Compositions for removing polymeric coatings from hard surfaces, e.g.
ΤI
    paints, varnishes, enamels, sealants or lacquers on aircraft, cars and
    buildings.
DC
    A35 A82 E19 G02 P43
     FREDRICKSEN, J R; JASPER, J M; SMITH, P E; ZINNECKER, W R
IN
     (ELDO-N) ELDORADO CHEM CO INC
PΑ
CYC
    US 5954890
                  A 19990921 (199948)*
                                             8p
PΤ
ADT US 5954890 A Div ex US 1995-549495 19951027, US 1997-938222 19970926
FDT US 5954890 A Div ex US 5830836
                     19951027; US 1997-938222
PRAI US 1995-549495
                                                19970926
         5954890 A UPAB: 19991122
AΒ
    US
    NOVELTY - A method of making a polymeric coating on a surface
     softened-to-release at ambient temperature comprises applying to the
     surface, a composition comprising hydrogen peroxide or an organic
     peroxide, water, a corrosion inhibitor and a thickener, such that the
     composition has a pH of 6.5-11.0 and minimal corrosiveness during use.
          USE - For removing polymeric coatings, e.g. a paint, varnish, enamel,
     sealant or lacquer, on aircraft and cars at ambient temperature (all
     claimed) and also buildings. Polymeric coatings may be removed from any
     hard, nonporous surface, e.g. metal, certain types of stone and acrylic
     siding.
          ADVANTAGE - The compositions use peroxide in a way that minimizes
     corrosion of metals and minimizes hazardous reactions. The shelf life of
     the product is maximized (e.g. a peroxide content of 16% after storage for
     3 months), and significantly longer than that of prior art compositions,
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through the use of 2 storage-stable stock solutions, which are mixed inline immediately before use. The solution applied has greater activity

for oxidation of coatings.

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The peroxide solution may further contains a surfactant, a stabilizer or a chelator, or a supplementary activator. The peroxide is hydrogen peroxide or methyl ethyl ketone peroxide. The oxidation catalyst is sodium molybdate or manganese sulfate. Two preferred acid peroxide stock solutions, (A) and (B), comprise water (0.40 or 7.50 wt.% respectively), sodium ethylenediamine tetraacetate (0.50 wt.% for both), 75% phosphoric acid (0.10 or 1.00 wt.% respectively), gamma-butyrolactone (16.0 and 0 wt.% respectively), hexylene glycol (30.0 and 0 wt.% respectively), N-methyl-2-pyrrolidone (0. ANSWER 77 OF 158 WPIDS (C) 2003 THOMSON DERWENT 1999-231366 [20] WPIDS C1999-068150 Peroxygen bleach composition containing salt-free zwitterionic betaine surfactant to reduce fabric damage and color loss. ANTONIOLI, S; DEL DUCA, V; GIUNTI, S (PROC) PROCTER & GAMBLE CO CYC A1 19990414 (199920) \* EN 14p R: AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SIWO 9918179 A1 19990415 (199922) EN RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW AU 9910726 A 19990427 (199936) A1 20000726 (200037) ENEP 1021505 R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU NL PT SE A 20000808 (200044) BR 9812902 B1 20011113 (200173) US 6316400 JP 2001519458 W 20011023 (200202) 37p EP 908510 A1 EP 1997-870151 19971008; WO 9918179 A1 WO 1998-US21240 19981007; AU 9910726 A AU 1999-10726 19981007; EP 1021505 A1 EP 1998-953321 19981007, WO 1998-US21240 19981007; BR 9812902 A BR 1998-12902 19981007, WO 1998-US21240 19981007; US 6316400 B1 WO 1998-US21240 19981007, US 2000-509915 20000619; JP 2001519458 W WO 1998-US21240 19981007, JP 2000-514979 19981007 AU 9910726 A Based on WO 9918179; EP 1021505 A1 Based on WO 9918179; BR 9812902 A Based on WO 9918179; US 6316400 B1 Based on WO 9918179; JP 2001519458 W Based on WO 9918179 PRAI EP 1997-870151 19971008 908510 A UPAB: 20011203 NOVELTY - Addition of salt-free zwitterionic betaine surfactant to peroxygen bleach to reduce tensile strength loss and color damage to fabric DETAILED DESCRIPTION - A liquid bleaching composition comprises a peroxygen bleach (A) and a salt-free zwitterionic betaine surfactant (B). USE - The composition is used for bleaching fabrics (claimed). ADVANTAGE - Addition of (B) reduces loss of tensile strength and color damage to fabrics by the peroxide bleach (claimed). The composition also has excellent stain removing activity on various stains (including greasy) and is physically and chemically stable on prolonged storage. Dwq.0/0 TECH. a ring; R4 = a group which, with N+forms a hydrophilic group (especially 1-10C alkylene, hydroxyalkylene or polyalkoxy); X = carboxylate or sulfonate. provided that there is no more than 1 OH group in any (C(Rb)2).

(A) is H202, or a water soluble source of it, e.g. percarbonates, persilicates, persulfates, perborates, peroxyacids, hydroperoxides and/or aromatic and aliphatic diacyl peroxides (preferably t-Bu hydroperoxide, cumyl hydroperoxide, 2,4,4-trimethylpentyl-2hydroperoxide, di-isopropylbenzenemonohydroperoxide, t-amylhydroperoxide, 2,5-dimethylhexane-2,5-dihydroperoxide, dilauroyl peroxide, didecanoyl peroxide, dimyristoyl peroxide, benzoyl peroxide and/or especially H2O2). The composition comprises 0.01-20 (especially 2-10) wt.% The composition may also comprise up to 30 (especially 0.5-20) wt.% an ethoxylated nonionic surfactant of formula (II) and up to 5 (especially 0.01-1.5) wt.% chelating agent (preferably a phosphonate, amino carboxylate, other carboxylate or polyfunctionally substituted aromatic chelating agent and/or ethylenediamine N,N'-disuccinic acid (especially amino aminotri (methylene phosphonic acid), diethylene-triaminopentaacetic. ANSWER 78 OF 158 JAPIO COPYRIGHT 2003 JPO 1999-315398 **JAPIO** FORMATION OF TITANIUM ANODICALLY OXIDIZED FILM FOR PHOTOCATALYST ITO SEISHIRO; TADA HIROAKI; KURAMOTO ATSUSHI DAIWA HOUSE IND CO LTD JP 11315398 A 19991116 Heisei JP 1999-42857 (JP11042857 Heisei) 19990222 PRAI JP 1998-38436 19980220 PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1999 PROBLEM TO BE SOLVED: To allow a film to exhibit photocatalystic operation even by ultraviolet rays and visible rays and to obtain antibacterial, deodorant and contamination preventive effects by immersing titanium into an electrolytic bath composed of sulfuric acid, phosphoric acid and hydrogen peroxide, increasing the voltage to the prescribed one by a prescribed direct constant current and holding it for a prescribed time to form a titanium anodically oxidized film essentially consisting of an anatase form. SOLUTION: This is a method for forming a titanium anodically oxidized film for a photocatalyst exhibiting photocatalystic operation even by visible rays, in which titanium is immersed into an electrolytic bath composed of sulfuric acid, phosphoric acid, hydrogen peroxide and cobalt sulfate, the voltage is increased to the prescribed one by a prescribed direct constant current, and it is held for a prescribed time to form a TiO<SB>2</SB>-CoO series titanium anodically oxidized film. Moreover, titanium is immersed into an electrolytic bath composed of sulfuric acid, phosphoric acid, hydrogen peroxide and zinc sulfate, the voltage is increased to the prescribed one, and it is held for a prescribed time to form a TiO<SB>2</SB>-ZnO series titanium anodically oxidized film. The titanium anodically oxidized film to be formed is used for the interior and exterior materials of buildings, apparatus for cooking, tableware or the like. COPYRIGHT: (C) 1999, JPO . and to obtain antibacterial, deodorant and contamination preventive effects by immersing titanium into an electrolytic bath composed of sulfuric acid, phosphoric acid and hydrogen peroxide, increasing the voltage to the prescribed one by a prescribed direct constant current and holding it for a prescribed time. . . exhibiting photocatalystic operation even by visible rays, in which titanium is immersed into an electrolytic bath composed of sulfuric acid, phosphoric acid, hydrogen peroxide and cobalt sulfate, the voltage is increased to the prescribed one by a prescribed direct constant current, and it is held for a. . . form a TiO<SB>2</SB>-CoO series titanium anodically oxidized film. Moreover, titanium is immersed into an electrolytic bath composed of sulfuric acid, phosphoric

L3

AN

TI

IN

PA

ΑI

AB

AR

acid, hydrogen peroxide and zinc

sulfate, the voltage is increased to the prescribed one, and it is
held for a prescribed time to form a TiO<SB>2</SB>-ZnO. . .

- L3 ANSWER 79 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1999:550538 CAPLUS
- DN 131:322773
- TI A Heterogeneous Tungsten Catalyst for Epoxidation of Terpenes and Tungsten-Catalyzed Synthesis of Acid-Sensitive Terpene Epoxides
- AU Villa de P., Aida L.; Sels, Bert F.; De Vos, Dirk E.; Jacobs, Pierre A.
- CS Center for Surface Chemistry and Catalysis, Katholieke Universiteit Leuven, Heverlee, B-3001, Belg.
- SO Journal of Organic Chemistry (1999), 64(19), 7267-7270 CODEN: JOCEAH; ISSN: 0022-3263
- PB American Chemical Society
- DT Journal
- LA English
- OS CASREACT 131:322773
- AB A heterogeneous, reusable tungsten catalyst for the selective epoxidn. of a series of terpene olefins with hydrogen peroxide is reported.
- RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- IT 1066-51-9, (Aminomethyl)phosphonic acid 11120-01-7, Tungstic acid sodium salt dihydrate 59158-14-4, Methyltrioctylammonium hydrogen sulfate 92768-58-6D, Venturello anion, macroreticular Amberlite IRA-900 complex
  - RL: CAT (Catalyst use); USES (Uses)

(heterogeneous tungsten catalyst for epoxidn. of terpenes with hydrogen peroxide)

- L3 ANSWER 80 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1999:643380 CAPLUS
- DN 132:63758
- TI A Practical Method for Alcohol Oxidation with Aqueous Hydrogen Peroxide under Organic Solvent- and Halide-Free Conditions
- AU Sato, Kazuhiko; Aoki, Masao; Takagi, Junko; Zimmermann, Klaus; Noyori, Ryoji
- CS Dep. Chem. and Res. Cent. for Mater. Sci., Nagoya University, Chikusa-ku, Nagoya, 464-8602, Japan
- SO Bulletin of the Chemical Society of Japan (1999), 72(10), 2287-2306 CODEN: BCSJA8; ISSN: 0009-2673
- PB Chemical Society of Japan
- DT Journal
- LA English
- AB A catalytic system consisting of sodium tungstate and methyltrioctylammonium hydrogen sulfate effects oxidn. of simple secondary alcs. to ketones using 3-30% H2O2without any org. solvents. The oxidn. can be conducted under entirely halide-free, mildly acidic conditions. combination of tungstic acid and an appropriate quaternary ammonium salt also effects the alc. dehydrogenation. The org./aq. biphasic reaction allows easy product/catalyst sepn. The turnover no., defined as mols of product per mol of catalyst, approaches 77700 (2-octanol) or 179000 (1-phenylethanol), two orders of magnitude higher than any previously reported. Ester, alkyl and t-butyldimethylsilyl ether, epoxy, carbonyl, N-alkyl carboxamide, and nitrile groups are tolerated under the reaction conditions. Secondary alcs. are preferentially oxidized over terminal olefins. Primary alkanols are oxidized directly to carboxylic acids in a moderate to high yield. Benzylic alcs. are selectively oxidized to benzaldehydes or benzoic acids under suitable conditions. This method is high-yielding, clean, safe, operationally simple, and cost-effective, and therefore suitable for practical org. synthesis. The mechanistic origin of the catalytic efficiency is discussed.
- RE.CNT 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- IT 123-03-5, N-Hexadecylpyridinium chloride 1112-67-0, Tetrabutylammonium

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chloride 2760-18-1, N,N,N-Tris(decyl)-1-decanaminium hydrogen
             7783-03-1, Tungstic acid 13472-45-2, Sodium tungstate
    17756-56-8, Tetrahexylammonium hydroxide 32503-27-8, Tetrabutylammonium
    hydrogen sulfate 32503-34-7, Tetrahexylammonium hydrogen
              57340-65-5, Tetradecylammonium hydroxide
    RL: CAT (Catalyst use); USES (Uses)
       (oxidn. of alcs. in aq. hydrogen peroxide under
       solvent-free and halide-free conditions)
    59158-14-4P, Methyltrioctylammonium hydrogen sulfate
IT
    RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);
    USES (Uses)
       (oxidn. of alcs. in aq. hydrogen peroxide under
       solvent-free and halide-free conditions)
    67-63-0, 2-Propanol, reactions 75-65-0, tert-Butyl alcohol, reactions
IT
    76-83-5, Triphenylmethyl chloride 88-65-3, 2-Bromobenzoic acid
    89-95-2, 2-Methylbenzyl alcohol 94-96-2, 2-Ethyl-1,3-hexanediol
    96-22-0, 3-Pentanone 96-41-3, Cyclopentanol
                                                   98-52-2,
    4-tert-Butylcyclohexanol 98-85-1, .alpha.-Methylbenzenemethanol
    100-51-6, Benzyl alcohol, reactions 104-76-7, 2-Ethyl-1-hexanol
    105-13-5, 4-Methoxybenzyl alcohol 108-93-0, Cyclohexanol, reactions
    111-26-2, Hexylamine 111-66-0, 1-Octene 111-87-5, 1-Octanol, reactions
                         143-08-8, 1-Nonanol 507-70-0
                                                        589-18-4,
    123-96-6, 2-Octanol
    4-Methylbenzyl alcohol 619-73-8, 4-Nitrobenzyl alcohol
                                                             868-46-2,
    3,4-Diethyl-3-hexene 873-75-6, 4-Bromobenzyl alcohol 873-76-7,
    4-Chlorobenzyl alcohol 920-39-8, Isopropylmagnesium bromide 1066-51-9,
    (Aminomethyl)phosphonic acid 1592-38-7,
    2-Naphthalenemethanol 1653-30-1, 2-Undecanol 2046-21-1, 6-Oxoheptanoic
    acid methyl ester 3128-07-2, 6-Oxoheptanoic acid 3174-74-1,
    5,6-Dihydro-2H-pyran 4048-42-4, 1-Dodecen-3-ol 5337-72-4,
    2,6-Dimethylcyclohexanol 6032-29-7, 2-Pentanol 7154-66-7,
    2-Bromobenzoyl chloride 13491-79-7, 2-tert-Butylcyclohexanol
    14609-79-1, 2,2,4,4-Tetramethyl-3-pentanol 14850-22-7, (Z)-3-Octene
    14919-01-8, (E)-3-Octene 18162-48-6, tert-Butyldimethylsilyl chloride
    18516-37-5, 2-Methyl-1-undecene 21951-49-5, 11-Dodecen-2-ol
    23381-92-2, 2-Methyl-2-decene 95465-45-5 199916-09-1,
    5-Cyclohexadecen-1-ol 253309-47-6, 11-Hydroxy-9-nonadecanone
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (oxidn. of alcs. in aq. hydrogen peroxide under
       solvent-free and halide-free conditions)
    ANSWER 81 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1998:568901 CAPLUS
DN
    129:177238
    Rinse aid solutions and process for stainless steel
ΤI
    Peterson, Joseph C.
IN
PA
    Crown Technology, Inc., USA
so
    PCT Int. Appl., 12 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN. CNT 1
                KIND DATE
                                 APPLICATION NO. DATE
    PATENT NO.
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                                        -----
    -----
    WO 9836044 A1 19980820 WO 1998-US1721 19980128
PT
        W: CA, JP, MX
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                 A 19981013
                                    US 1997-947994 19971009
    US 5821212
PRAI US 1997-40075P
                    P
                          19970213
                         19970312
    US 1997-40186P P
US 1997-947994 A
                          19971009
    The solns., for acid pickled stainless steel, comprise H2O2
AB
    2-20, phosphoric acid 3-4 and Na 2-ethylhexyl
    sulfate 3-4% and balanced water.
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 5
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ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The solns., for acid pickled stainless steel, comprise H2O2
2-20, phosphoric acid 3-4 and Na 2-ethylhexyl
sulfate 3-4% and balanced water.

ST stainless steel rinse aid soln; hydrogen peroxide
phosphoric acid rinsing aid; ethylhexyl sulfate aq soln
rinsing steel

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L3 ANSWER 82 OF 158 CAPLUS COPYRIGHT 2003 ACS
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AN 1998:293593 CAPLUS

DN 129:5897

TI Carpet cleaning compositions and method for cleaning carpets

IN Silvaggi, Lorena; Raso, Floriana; Scialla, Stefano

PA Procter & Gamble Co., USA; Silvaggi, Lorena; Raso, Floriana; Scialla, Stefano

SO PCT Int. Appl., 38 pp. CODEN: PIXXD2

MARPAT 129:5897

DT Patent

LA English

FAN.CNT 1

os

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APPLICATION NO. DATE
    PATENT NO. KIND DATE
    WO 9818894 A1 19980507 WO 1997-US19792 19971030
PΙ
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
            KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
            US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, KE, LS, MW, SD, SZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN,
            ML, MR, NE, SN, TD, TG
                     A1 19980506
                                        EP 1996-870136
                                                       19961031
    EP 839900
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                     A1
                          19980522
                                         AU 1998-52425
                                                         19971030
    AU 9852425
                                         JP 1998-520785
                                                         19971030
                     T2
    JP 2000507643
                          20000620
                                         US 1999-297432
                                                         19990430
                     B1
                          20010123
    US 6177395
                          19961031
PRAI EP 1996-870136
                     Α
                          19971030
    WO 1997-US19792
                    W
```

The title compns. having improved overall carpet stain removal performance, e.g., on particulate stains, greasy, oily, bleachable and/or enzymic stains, comprise a peroxygen bleach, a C1-4 linear or branched, (un)satd. alc. and a 2nd solvent selected from a hydrophilic solvent comprising .gtoreq.1 ether groups and having a soly. in H2O >10 mL per 100 mL at 25 .degree.C, a polyol hydrophilic solvent having a soly. in H2O >10 mL per 100 mL at 25 .degree.C, a hydrophobic solvent having a soly. in H2O <10 mL per 100 mL at 25 .degree.C, and their mixts., at a wt. ratio of the alc. to the 2nd solvent of 1:(10-1.1). A typical compn. contained H2O2 5.0, Na alkyl sulfate 3.0, ethoxylated tetraethylenepentamine 1.0, salicylic acid 0.1, phosphonate chelant 0.1, Me2CHOH 1.0, EtOCH2CH2OH 2.0, Pr gallate 0.01 and H2O balance.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

The title compns. having improved overall carpet stain removal performance, e.g., on particulate stains, greasy, oily, bleachable and/or enzymic stains, comprise a peroxygen bleach, a C1-4 linear or branched, (un)satd. alc. and a 2nd solvent selected from a hydrophilic solvent comprising .gtoreq.1 ether groups and having a soly. in H2O >10 mL per 100 mL at 25 .degree.C, a polyol hydrophilic solvent having a soly. in H2O >10 mL per 100 mL at 25 .degree.C, a hydrophobic solvent having a soly. in H2O <10 mL per 100 mL at 25 .degree.C, and their mixts., at a wt. ratio of the alc. to the 2nd solvent of 1:(10-1.1). A typical compn. contained H2O2 5.0, Na alkyl sulfate 3.0, ethoxylated

tetraethylenepentamine 1.0, salicylic acid 0.1, **phosphonate** chelant 0.1, Me2CHOH 1.0, EtOCH2CH2OH 2.0, Pr gallate 0.01 and H2O balance.

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ANSWER 83 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
     1998:208484 CAPLUS
DN
     128:232412
     Method for producing chlorine dioxide using methanol, chloride, and
ΤI
     hydrogen peroxide as reducing agents
     Nonni, Arthur J.; Graff, Robert J.; Liu, Raymond; Voss, Jerry N.; Hammond,
IN
     International Paper Co., USA; Nonni, Arthur J.; Graff, Robert J.; Liu,
PΑ
     Raymond; Voss, Jerry N.; Hammond, Timothy R.
SO
     PCT Int. Appl., 21 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
                                          APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
     WO 9813296 A1 19980402 WO 1997-US18156 19970929
PΙ
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
             US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
             GN, ML, MR, NE, SN, TD, TG
                                           AU 1997-46732 19970929
     AU 9746732
                      A1 19980417
                             19960927
PRAI US 1996-720087
                             19970929
     WO 1997-US18156
     Clo2 is produced by reacting an alkali metal chlorate (e.g., NaClo3) with
AB
     CH3OH, metal chloride (e.g., NaCl), and H2O2 (at <50%) as reducing agents
     in an aq. acidic medium (e.g., H2SO4, HCl, H3PO4, HNO3, HClO3) at
     20-140.degree.C, esp 50-75.degree.C. A catalyst may be used, selected
     from AgNO3, MnSO4, V2O5, Ru oxide, Rh oxide and PdO. The reaction can be
     carried out at atm. pressure or sub-atm. pressure. The combination of
     these reducing agents causes an unexpected enhancement in ClO2 generation.
              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     1314-08-5, Palladium oxide 1314-62-1, Vanadium pentoxide, uses
IT
                                        7785-87-7, Manganese sulfate
     7761-88-8, Silver nitrate, uses
     11113-84-1, Ruthenium oxide 12680-36-3, Rhodium oxide
     RL: CAT (Catalyst use); USES (Uses)
        (chlorine dioxide prodn. using methanol, chloride, and hydrogen
        peroxide as reducing agents)
     67-56-1, Methanol, reactions 7647-01-0, Hydrochloric acid, reactions 7647-01-0D, Hydrogen chloride, salts 7647-14-5, Sodium chloride,
IT
                 7664-38-2, Phosphoric acid, reactions
     reactions
     7664-93-9, Sulfuric acid, reactions 7697-37-2, Nitric acid, reactions
     7722-84-1, Hydrogen peroxide, reactions 7775-09-9, Sodium chlorate
     7790-93-4, Chloric acid 7790-93-4D, Chloric acid, alkali metal salts
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (chlorine dioxide prodn. using methanol, chloride, and hydrogen
        peroxide as reducing agents)
     ANSWER 84 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1998:478952 CAPLUS
ΑN
     129:86049
DN
     Germicidal compositions for the treatment of animal infectious diseases of
TI
     the hoof
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Meisters, George J.; Gradle, Charles D.

Babson Bros. Co., USA

IN

PA

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SO
    U.S., 7 pp.
    CODEN: USXXAM
DT
    Patent
LA
    English
FAN.CNT 1
                                  APPLICATION NO. DATE
                 KIND DATE
    PATENT NO.
                                         ______
     -----
    US 5780064 A 19980714 US 1997-938013 19970912
WO 9913888 A1 19990325 WO 1998-US18751 19980909
PΙ
           AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP,
            KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO,
            NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA,
            UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                     A1 19990405
                                       AU 1998-92270
                                                         19980909
    AU 9892270
    AU 739193
                     B2
                           20011004
                          20000816
                                        EP 1998-944820
                                                          19980909
    EP 1027062
                    A1
        R: DE, FR, GB, NL
                                       BR 1998-12437
                                                          19980909
    BR 9812437 A 20011120
                                         NZ 1998-503340
                                                          19980909
    NZ 503340
                    A
                          20020828
PRAI US 1997-938013
                    A 19970912
    WO 1998-US18751 W
                          19980909
    An aq. germicidal compn. for the treatment or prevention of infectious
    diseases of the hoof in animals, comprising a copper salt, a quaternary
    ammonium compd., and a peroxide is disclosed. An aq. compn. contained
    water 69.9, hydroxyacetic acid 0.5, Barlox 12 1.0, BTC 2125M 1.0, 75%
    phosphoric acid 0.6, copper sulfate
    pentahydrate 20.0, and 35% hydrogen peroxide 10.0%.
    Efficacy of the compn. in treatment of dairy cows infected with
    papillomatous digital dermatitis was shown.
             THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 36
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    An ag. germicidal compn. for the treatment or prevention of infectious
AB
    diseases of the hoof in animals, comprising a copper salt, a quaternary
    ammonium compd., and a peroxide is disclosed. An aq. compn. contained
    water 69.9, hydroxyacetic acid 0.5, Barlox 12 1.0, BTC 2125M 1.0, 75%
    phosphoric acid 0.6, copper sulfate
    pentahydrate 20.0, and 35% hydrogen peroxide 10.0%.
    Efficacy of the compn. in treatment of dairy cows infected with
    papillomatous digital dermatitis was shown.
    germicide pharmaceutical animal infectious disease hoof; BTC 2125M
ST
    hydrogen peroxide pharmaceutical germicide; copper sulfate
    pharmaceutical germicide hydrogen peroxide; dermatitis
    germicide pharmaceutical animal hoof
    ANSWER 85 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1998:397851 CAPLUS
DN
    129:71675
    Reduction of S-(2-Diisopropylamino)ethyl methylphosphonothioate ion with
ΤI
    hydrogen peroxide
IN
    Yang, Yu-chu; Wagner, George W.
    United States Dept. of the Army, USA
PA
SO
    U.S., 5 pp.
    CODEN: USXXAM
DT
    Patent
    English
LΑ
FAN.CNT 1
    PATENT NO. KIND DATE
                                         APPLICATION NO. DATE
     -----
                                         -----
PI US 5763737 A 19980609
PRAI US 1997-884492 19970627
                                         US 1997-884492 19970627
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A method for the redn. of toxicity of S-(2-diisopropylamino)ethyl
AB
    methylphosphonothioate ions in a medium or mixt. by reaction with hydrogen
    peroxide and a strong inorg. acid is described.
             THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 2
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    Sulfonic acids, processes
IT
    RL: PEP (Physical, engineering or chemical process); PROC (Process)
       (redn. of S-(2-Diisopropylamino)ethyl methylphosphonothioate ion with
       hydrogen peroxide)
    64-19-7, Acetic acid, processes 993-13-5, Methylphosphonic acid
TT
    7647-01-0, Hydrochloric acid, processes 7664-38-2, Phosphoric
    acid, processes 7697-37-2, Nitric acid, processes 7722-84-1,
    Hydrogen peroxide (H2O2), processes 65332-44-7 128869-82-9
    RL: PEP (Physical, engineering or chemical process); PROC (Process)
       (redn. of S-(2-Diisopropylamino)ethyl methylphosphonothioate ion with
       hydrogen peroxide)
    ANSWER 86 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1998:786116 CAPLUS
AN
    130:28042
DN
    Mixture solution containing hydrogen peroxide and liquid metal-cleaning
TI
    composition using it
IN
    Owa, Kyosuke
    Horiuchi K. K., Japan
PA
    Jpn. Kokai Tokkyo Koho, 4 pp.
SO
    CODEN: JKXXAF
DT
    Patent
    Japanese
LA
FAN.CNT 1
                 KIND DATE APPLICATION NO. DATE
    PATENT NO.
    ______
                                        -----
    JP 10324508 A2 19981208
                                      JP 1997-152875 19970526
рT
PRAI JP 1997-152875
                         19970526
    The mixt. soln. contains a H2O2 soln, a weak acid, and a dihydrogen Na
    dihydrate of an weak acid. The cleaning compn. contains the above mixt.
    soln, a cleaning agent, a chelating agent, and a surfactant. Reactivity
    of H2O2 is mild in the soln., so that the mixt. soln. and the cleaning
    soln. are easy to handle with high safety.
    60-00-4, EDTA, uses 77-92-9, Citric acid, uses 126-92-1D, Sodium
TT
    2-ethylhexyl sulfate, alkyl esters 5329-14-6, Sulfamic acid
    7664-38-2, Phosphoric acid, uses 9004-99-3,
                                                       25322-68-3D, alkyl
                                 9072-19-9, Fucoidin
    Polyoxyethylene monostearate
    ethers
    RL: TEM (Technical or engineered material use); USES (Uses)
        (metal-cleaning soln. compn. contg. H202 mixt. soln.,
       cleaning agent, chelating agent, and surfactant for safe handling)
    ANSWER 87 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1998:334868 CAPLUS
AN
    129:42639
DN
    Bleach compositions free from sharp odors and lasting effects for
TI
    preventing mildew redeposition
    Saiga, Koji; Yamada, Hiroyuki; Tsukuda, Kazunori
TN
PA
    Kao Corp., Japan
SO
    Jpn. Kokai Tokkyo Koho, 9 pp.
    CODEN: JKXXAF
DT
    Patent
    Japanese
T.A
FAN.CNT 1
    PATENT NO. KIND DATE
                                       APPLICATION NO. DATE
                   ---- ----
                                        -----
PI JP 10140190 A2 19980526
PRAI JP 1996-302744 19961114
                                        JP 1996-302744 19961114
```

OS MARPAT 129:42639

The title compns. comprise hydrogen peroxide or peroxides generating AB hydrogen peroxide in aq. solns., bleach activators R1C6H4(R4)pO(AO)nR2CO2R3SO3M and cationic surfactants chosen from R5R6N+Me2 X- and R7Me2N+CH2Ph X-, wherein R1 = H, C1-10 alkyl, etc.; R2, R3 = C1-8 alkylene, etc.; R4 = C1-5 alkylene, etc.; p = 0.1; A = C2-4alkylene, etc.; n = 1-100; M = alkali metal, etc.; R5 = C6-18 alkyl, etc.; R6 = Me, C6-18 alkyl, etc.; R7 = C6-18 alkyl, etc.; X- = anion. A compn. comprised hydrogen peroxide 6, Pho(C2H4O)2CH2CO2CH2CH2SO3Na 22, Dequest 2015DN 0.5, Na alkyl sulfate 1, and water to 100%. AB The title compns. comprise hydrogen peroxide or peroxides generating hydrogen peroxide in aq. solns., bleach activators R1C6H4(R4)pO(A0)nR2CO2R3SO3M and cationic surfactants chosen from R5R6N+Me2 X- and R7Me2N+CH2Ph X-, wherein R1 = H, C1-10 alkyl, etc.; R2, R3 = C1-8 alkylene, etc.; R4 = C1-5 alkylene, etc.; p = 0,1; A = C2-4alkylene, etc.; n = 1-100; M = alkali metal, etc.; R5 = C6-18 alkyl, etc.; R6 = Me, C6-18 alkyl, etc.; R7 = C6-18 alkyl, etc.; X- = anion. A compn. comprised hydrogen peroxide 6, Pho(C2H4O)2CH2CO2CH2CH2SO3Na 22, Dequest 2015DN 0.5, Na alkyl sulfate 1, and water to 100%. ANSWER 88 OF 158 CAPLUS COPYRIGHT 2003 ACS L3AN1998:314875 CAPLUS DN 129:29425 Bleaching agent compositions for mildewcides TI Saika, Koshi; Yamada, Hiroyuki; Tsukuda, Kazunori IN PA Kao Corp., Japan Jpn. Kokai Tokkyo Koho, 8 pp. SO CODEN: JKXXAF DT Patent Japanese LΑ FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ---------------JP 10130694 A2 19980519 JP 1996-286415 19961029 PΙ PRAI JP 1996-286415 19961029 The bleaching agent compns. contain (a) H2O2 or peroxides which generate H2O2 in water, (b) bleaching agent activators R1C6H4R4pO(AO)nR2CO2R3SO3M (I; R1 = H, C1-10 alkyl, alkenyl, acyl; R2 = C1-8 alkylene, phenylene which may be substituted with C1-5 alkyl; R3 = C1-8 alkylene, R4 = C1-5 alkylene; p = 0, 1; A = C2-4 alkylene; n = 1-100; M =alkali metal, alk. earth metal, ammonium, alkylammonium, alkanolammonium), and (c) R1C6H4R4pO(AO)nR2CO2M1 (II; R1-R4, A, p, n = same as above; M1 = H, alkali metal, alk. earth metal, ammonium, alkylammonium, alkanolammonium). Thus, a storage-stable 2-pot-type bleaching agent compn. was composed of agent-A comprising H202 6, I (R1 = H, p = 0, A0 = CH2CH2O, n = 2, R2 = CH2, R3 = CH2CH2, M = Na) 22, Dequest 2015DN 0.5, Na C12-14 alkyl sulfonate 1, and II (R1 = H, p = 0, AO = CH2CH2O, n = 2, R2 = CH2, M1 = H) 0.1% and balance water and agent-B contg. 20% K2CO3 and balance water. The bleaching agent compns. contain (a) H2O2 or peroxides which generate AB H2O2 in water, (b) bleaching agent activators R1C6H4R4pO(AO)nR2CO2R3SO3M (I; R1 = H, C1-10 alkyl, alkenyl, acyl; R2 = C1-8 alkylene, phenylene which may be substituted with C1-5 alkyl; R3 = C1-8 alkylene, R4 = C1-5 alkylene; p = 0, 1; A = C2-4 alkylene; n = 1-100; M = alkali metal, alk. earth metal, ammonium, alkylammonium, alkanolammonium), and (c) R1C6H4R4pO(AO)nR2CO2M1 (II; R1-R4, A, p, n = same as above; M1 = H, alkali metal, alk. earth metal, ammonium, alkylammonium, alkanolammonium). Thus, a storage-stable 2-pot-type bleaching agent compn. was composed of agent-A comprising H2O2 6, I (R1 = H, p = 0, AO = CH2CH2O, n = 2, R2 = CH2, R3 = CH2CH2, M = Na) 22, **Dequest** 2015DN 0.5, Na C12-14 alkyl sulfonate 1, and II (R1 = H, p = 0, AO = CH2CH2O, n = 2, R2 = CH2, M1 = H) 0.1% and balance water and agent-B contg. 20% K2CO3 and balance water.

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ANSWER 89 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1998:314370 CAPLUS
DN
    129:42635
    Thickened liquid bleaching agents
TI
    Ogura, Nobuyuki; Ozaki, Kazuyoshi; Aoyagi, Muneo
IN
PA
    Kao Corp., Japan
SO
    Jpn. Kokai Tokkyo Koho, 12 pp.
    CODEN: JKXXAF
DT
    Patent
LΑ
    Japanese
FAN.CNT 1
                                       APPLICATION NO. DATE
    PATENT NO. KIND DATE
                                       JP 1997-166944 19970624
     -----
    JP 10130693 A2 19980519
ΡI
                                        TW 1997-86111382 19970808
    CN 1176302
                    B 20010101
CN 1176302 A 19980318
PRAI JP 1996-236218 A 19960906
                                        CN 1997-118258 19970905
os
    MARPAT 129:42635
    Bleaching agents contain H2O2, thickening agents, and surfactants and have
AB
    viscosity 10-1000 mPa.s at 30.degree., and the thickening agents have
    polyoxyalkylene chains, alkyl or alkenyl groups, mol. wt. >600, and
    polyoxyalkylene chain-alkyl or alkenyl group wt. ratio >2. Thus, a
    bleaching agent contained H2O2 5, Emanon 3170 2, C12
    alkylbenzenesulfonic acid 0.5, polyethylene glycol lauryl ether 2.0,
    Dequest 2010 0.1%, and H2O.
    Bleaching agents contain H2O2, thickening agents, and surfactants and have
AΒ
    viscosity 10-1000 mPa.s at 30.degree., and the thickening agents have
    polyoxyalkylene chains, alkyl or alkenyl groups, mol. wt. >600, and
    polyoxyalkylene chain-alkyl or alkenyl group wt. ratio >2. Thus, a
    bleaching agent contained H2O2 5, Emanon 3170 2, C12
     alkylbenzenesulfonic acid 0.5, polyethylene glycol lauryl ether 2.0,
    Dequest 2010 0.1%, and H2O.
    2809-21-4, Dequest 2010
IT
    RL: MOA (Modifier or additive use); USES (Uses)
        (bleaching agents contg. hydrogen peroxide and
       thickening agents and surfactants)
    7722-84-1, Hydrogen peroxide, uses 9002-92-0, Polyethylene glycol lauryl
IT
            19309-23-0, N, N-Dimethyl-N-ethyl-N-tetradecylammonium ethyl
     sulfate 27176-87-0, Laurylbenzenesulfonic acid 51889-11-3,
     Sodium p-Sulfophenyl hexanoate 89740-13-6, p-Sulfophenyl laurate sodium
     salt
    RL: TEM (Technical or engineered material use); USES (Uses)
        (bleaching agents contg. hydrogen peroxide and
       thickening agents and surfactants)
    ANSWER 90 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1998:287106 CAPLUS
AN
DN
    129:29413
    Storage stable liquid bleaching compositions
TI
    Ogura, Nobuyuki; Ozaki, Kazuyoshi; Aoyagi, Muneo
IN
PA
     Kao Corp., Japan
     Jpn. Kokai Tokkyo Koho, 9 pp.
SO
     CODEN: JKXXAF
DТ
    Patent
    Japanese
LA
FAN.CNT 1
     PATENT NO. KIND DATE
                                  APPLICATION NO. DATE
                     ----
                                         -----
                                                          _____
     ______
PI JP 10121100 A2
PRAI JP 1996-276283
                          19980512
                                         JP 1996-276283 19961018
                         19961018
    MARPAT 129:29413
os
    Bleaching compns. contain H2O2, heavy metal chelating agents, and nonionic
AΒ
     surfactants, which contain <5% polyoxyalkylenes YO(AO)nZ, where A = linear
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or branched C2-3 alkylenes, Z, Y = H or C1-3 alkyls, and n = 3-50.
    a bleaching agent contained H2O2 5, polyethylene glycol lauryl
    ether 5, p-sulfophenyl laurate Na salt 0.5, Dequest 2010 0.2,
    N, N-dimethyl-N-ethyl-N-tetradecylammonium Et sulfate 0.5%, and
    Bleaching compns. contain H2O2, heavy metal chelating agents, and nonionic
AB
     surfactants, which contain <5% polyoxyalkylenes YO(AO)nZ, where A = linear
    or branched C2-3 alkylenes, Z, Y = H or C1-3 alkyls, and n = 3-50. Thus,
    a bleaching agent contained H2O2 5, polyethylene glycol lauryl
    ether 5, p-sulfophenyl laurate Na salt 0.5, Dequest 2010 0.2,
    N, N-dimethyl-N-ethyl-N-tetradecylammonium Et sulfate 0.5%, and
    H20.
    2809-21-4, Dequest 2010
IT
    RL: MOA (Modifier or additive use); USES (Uses)
        (Dequest 2010; storage stable liq. bleaching compns. contg.
       hydrogen peroxide and chelating agents and nonionic
       surfactants)
    7722-84-1, Hydrogen peroxide, uses 9002-92-0, Polyethylene glycol lauryl
IT
    ether 19309-23-0, N,N-Dimethyl-N-ethyl-N-tetradecylammonium ethyl
     sulfate 27176-87-0, Laurylbenzenesulfonic acid 70424-62-3
     89740-13-6, p-Sulfophenyl laurate sodium salt
    RL: TEM (Technical or engineered material use); USES (Uses)
       (storage stable liq. bleaching compns. contg. hydrogen
       peroxide and chelating agents and nonionic surfactants)
    ANSWER 91 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1998:157561 CAPLUS
AN
DN
    128:232437
    Manufacture of high-purity hydrogen peroxide
TI
IN
    Nankawa, Yoshitsugu; Kokubu, Atsushi; Murakami, Seishi
PA
    Mitsubishi Gas Chemical Co., Inc., Japan
    Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
DT
    Patent
LA
    Japanese
FAN.CNT 1
                                   APPLICATION NO. DATE
                   KIND DATE
                                         -----
     -----
    JP 10067505 A2 19980310
                                        JP 1996-225296 19960827
PRAI JP 1996-225296
                          19960827
AΒ
     The title process comprises mixing impurity-contg. aq. H2O2 with
     acids having pKa .ltoreg.5, and treating it with F salt-type anion
     exchangers, optionally sulfonic acid-contg. strongly acidic
     cation exchangers and bicarbonate-type anion exchangers properly.
    process is useful for removal of Si from H2O2.
AB
     The title process comprises mixing impurity-contg. aq. H2O2 with
     acids having pKa .ltoreq.5, and treating it with F salt-type anion
     exchangers, optionally sulfonic acid-contg. strongly acidic
     cation exchangers and bicarbonate-type anion exchangers properly. The
    process is useful for removal of Si from H2O2.
    7647-01-0, Hydrochloric acid, processes 7664-38-2, Phosphoric
                     7664-93-9, Sulfuric acid, processes 7697-37-2,
     acid, processes
    Nitric acid, processes
     RL: PEP (Physical, engineering or chemical process); PROC (Process)
        (treatment with acid and anion and cation exchanger in removal of Si
       from H2O2)
    ANSWER 92 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1998:204436 CAPLUS
AN
DN
     128:259114
    Hydrogen peroxide complexes of inorganic salts and their synthesis as
TI
    pastes for disinfection
     Chen, Xiaolan; Jacobs, Paul T.; Lin, Szu-min
IN
     Johnson & Johnson Medical, Inc., USA
PA
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SO
     Eur. Pat. Appl., 63 pp.
     CODEN: EPXXDW
ידים
     Patent
LΑ
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FAN.CNT 1
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                                            EP 1997-307263
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                             19990107
     EP 831056
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                                                               19970919
                             19990105
     BR 9704759
                       Α
                             19960919
PRAI US 1996-716055
                       Α
     H2O2 complexes with inorg. salts are made by mixing the desired salt with
     sufficient water to form a soft hydrate paste, mixing the paste with a
     12-80% aq. H2O2 soln., and then drying the H2O2-contg. paste by oven or
     vacuum drying. The dried paste is heated for use as a solid disinfectant
     in vapor sterilization, e.g., of medical instruments or devices. The salt
     may be a phosphate salt or condensed phosphate salt of Na, Ca or Mg, such
     as Na4P2O7, which is complexed with H2O2. In examples, 30-90% aq. H2O2
     was sprayed dropwise onto 98% Na4P2O7, the mixt. was incubated at
     10-45 degree C for 1-16 h, then dried by vacuum drying at 25-60 degree C
     or oven drying at 60.degree.C, forming Na2P2O7.nH2O2 where n=1-4.
     7722-84-1DP, Hydrogen peroxide (H2O2), complexes, preparation 9002-89-5DP, Polyvinylalcohol, compd. with hydrogen peroxide
TT
     9003-01-4DP, compd. with hydrogen peroxide 9003-05-8DP, Polyacrylamide, compd. with hydrogen peroxide 9003-09-2DP, Polyvinylmethylether, compd.
                               9003-20-7DP, Polyvinylacetate, compd. with
     with hydrogen peroxide
     hydrogen peroxide
                          9003-39-8DP, Polyvinylpyrrolidone, compd. with
                          9004-35-7DP, Cellulose acetate, compd. with hydrogen
     hydrogen peroxide
                9005-22-5DP, Cellulose sulfate, sodium salt, compd.
     peroxide
                               9005-38-3DP, Sodium alginate,
     with hydrogen peroxide
                                     13769-85-2P, Diphosphoric acid,
     compd. with hydrogen peroxide
     tetrasodium salt, compd. with hydrogen peroxide (H2O2) (1:3)
     14479-85-7P, Urea, compd. with hydrogen peroxide 15039-07-3P,
     Diphosphoric acid, tetrasodium salt, compd. with hydrogen peroxide (H2O2)
             15362-88-6P, Diphosphoric acid, tetrasodium salt, compd. with
     (1:2)
                                 15523-00-9P, Phosphoric acid
     hydrogen peroxide (H2O2)
     , disodium salt, compd. with hydrogen peroxide (
     H202) (1:2) 15609-73-1P 15630-89-4P 16884-59-6P, Caracid, disodium salt, compd. with hydrogen peroxide (H202)
                                                16884-59-6P, Carbonic
                                                                    17032-34-7P
     18441-01-5P, L-Histidine, compd. with hydrogen peroxide (H2O2)
     22464-71-7P, Phosphoric acid, trisodium salt, compd.
     with hydrogen peroxide (H2O2)
                                      22653-27-6P,
     Triphosphoric acid, pentasodium salt, compd. with hydrogen peroxide (H2O2)
     25038-54-4DP, Nylon 6, compd. with hydrogen peroxide
                                                               25215-15-0P,
     Phosphoric acid, disodium salt, compd. with
     hydrogen peroxide (H2O2) (1:1)
                                       25232-41-1DP,
     Poly(4-vinylpyridine), compd. with hydrogen peroxide
                                                               25609-36-3P
     30347-99-0P
                   32131-17-2DP, Nylon 6.6, compd. with hydrogen peroxide
                   33960-95-1P, Diphosphoric acid, tetrapotassium salt, compd.
     33960-94-0P
     with hydrogen peroxide (H2O2)
                                      36563-87-8P, Phosphoric
     acid, tripotassium salt, compd. with hydrogen
     peroxide (H2O2) (1:2) 39041-45-7P, Phosphoric
     acid, tripotassium salt, compd. with hydrogen
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51770-74-2P, Diphosphoric acid,
    peroxide (H2O2) (1:3)
     tetrapotassium salt, compd. with hydrogen peroxide (H2O2) (1:6)
     122040-69-1P, Phosphoric acid, trisodium salt, compd.
     with hydrogen peroxide (H2O2) (1:5)
     189760-18-7P, Phosphoric acid, monopotassium salt,
     compd. with hydrogen peroxide (H2O2) (1:1)
     189760-19-8P
                   189760-20-1P
                                   189760-55-2P, Phosphoric
     acid, tripotassium salt, compd. with hydrogen
    peroxide (H2O2)
                       189760-61-0P
                                      197566-45-3P
                                                                 205367-54-0P
                                                  205367-51-7P
     197566-46-4P
                    205367-43-7P
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     205367-58-4P
                    205367-74-4P
                                                  205367-99-3P
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                    205368-17-8P
                                   205368-20-3P
     RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP
     (Preparation); USES (Uses)
        (hydrogen peroxide complexes of inorg. salts as
       pastes for disinfection)
    ANSWER 93 OF 158 JAPIO COPYRIGHT 2003 JPO
L3
                    JAPIO
AN
     PURIFICATION OF HYDROGEN PEROXIDE AND PLANT THEREFOR
ΤI
     DHALLUIN JEAN MARIE; WAWRZYNIAK JEAN JACQUES; LEDON HENRY
IN
     CHEMOXAL SA
PA
PΙ
     JP 10218610 A 19980818 Heisei
    JP 1997-280503 (JP09280503 Heisei) 19971014
AΙ
PRAI FR 1996-12569
                         19961015
     PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1998
     PROBLEM TO BE SOLVED: To provide a method for purifying hydrogen peroxide,
AB
     enabling to remove cations and organic acids from an aqueous hydrogen
    peroxide solution by adding a microligand having one or more functional
     groups selected from carboxyl group, sulfonyl group, phosphoryl group and
     a nitrogen-containing functional group such as an aromatic or non-aromatic
     amine functional group or an N-oxidized amine functional group to an
     aqueous hydrogen peroxide solution and subsequently subjecting the mixture
     to an ultrafiltration treatment.
     SOLUTION: This method for purifying hydrogen peroxide
     comprises adding one or more kinds of microligands selected from
     4-vinylpyridine homopolymer, styrene/4-vinylpyridine 2/8 and 1/9
     copolymer, an acryl/sulfate/sulfonate copolymer
     (MW=50,000), an acryl/sulfate copolymer (MW=50,000) and a polyvinyl
    phosphoric acid (MW=30,000) and subsequently forcibly
    passing the mixture through a ultrafiltration membrane.
     COPYRIGHT: (C) 1998, JPO
           . an aqueous hydrogen peroxide solution and subsequently subjecting
AB
     the mixture to an ultrafiltration treatment.
     SOLUTION: This method for purifying hydrogen peroxide
     comprises adding one or more kinds of microligands selected from
     4-vinylpyridine homopolymer, styrene/4-vinylpyridine 2/8 and 1/9
     copolymer, an acryl/sulfate/sulfonate copolymer
     (MW=50,000), an acryl/sulfate copolymer (MW=50,000) and a polyvinyl
     phosphoric acid (MW=30,000) and subsequently forcibly
     passing the mixture through a ultrafiltration membrane.
     COPYRIGHT: (C) 1998, JPO
    ANSWER 94 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1997:805823 CAPLUS
AN
DN
     128:49881
    Detergent compositions for laundry and dish washing with delayed
ΤI
     alkalinity system release
IN
    Hall, Robin Gibson
     Procter & Gamble Company, USA; Hall, Robin Gibson
PA
     PCT Int. Appl., 76 pp.
SO
     CODEN: PIXXD2
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DT
    Patent
    English
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    EP 912703
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                           19960531
PRAI GB 1996-11325
    WO 1997-US8233
                           19970515
    MARPAT 128:49881
OS
    The title compns. comprise a cationic ester surfactant and an alky. system
AΒ
    and a means for delaying the release of the alky. system relatively to the
    release of the cationic ester surfactant, in such a way that in the T50
    test (defined), the time to achieve a concn. that is 50% of the ultimate
    concn. of the cationic ester surfactant is at least 120 s less than the
    time to achieve a concn. that is 50% of the ultimate concn. of the alky.
     system. A laundry detergent comprised Na dodecylbenzenesulfonate 8,
    C12-15 alc. ethoxylate 3.4, RCO2CH2CH2CH2N+Me3 (R = C11-13) 6, zeolite
    18.1, amorphous Na carbonate 13, amorphous Na silicate 1.4, Na
     sulfate 26.1, NaBO2.3H2O.H2O2 5, Na percarbonate coated
    with Na silicate for slow release 4, tetraacetylethylenediamine 1.5,
    Dequest 2060 0.25, 1,1-hydroxyethanediphosphonic acid 0.3,
    protease 0.26, amylase 0.1, maleic acid-acrylic acid copolymer 0.3, CMC
     0.2, photoactivated bleach 15 (ppm), disodium 4,4'-bis(2-
     sulfostyryl)biphenyl 0.09, perfume 0.3, and silicone antifoam 0.5 part.
    The title compns. comprise a cationic ester surfactant and an alky. system
AΒ
    and a means for delaying the release of the alky. system relatively to the
    release of the cationic ester surfactant, in such a way that in the T50
     test (defined), the time to achieve a concn. that is 50% of the ultimate
     concn. of the cationic ester surfactant is at least 120 s less than the
     time to achieve a concn. that is 50% of the ultimate concn. of the alky.
     system. A laundry detergent comprised Na dodecylbenzenesulfonate 8,
     C12-15 alc. ethoxylate 3.4, RCO2CH2CH2CH2CH2N+Me3 (R = C11-13) 6, zeolite
     18.1, amorphous Na carbonate 13, amorphous Na silicate 1.4, Na
     sulfate 26.1, NaBO2.3H2O.H2O2 5, Na percarbonate coated
    with Na silicate for slow release 4, tetraacetylethylenediamine 1.5,
    Dequest 2060 0.25, 1,1-hydroxyethanediphosphonic acid 0.3,
    protease 0.26, amylase 0.1, maleic acid-acrylic acid copolymer 0.3, CMC
     0.2, photoactivated bleach 15 (ppm), disodium 4,4'-bis(2-
     sulfostyryl)biphenyl 0.09, perfume 0.3, and silicone antifoam 0.5 part.
```

- ANSWER 95 OF 158 CAPLUS COPYRIGHT 2003 ACS L3
- 1997:757095 CAPLUS AN
- DN128:36426
- Detergent composition TI
- Asano, Kaori; Scheibel, Jeffrey John; Baba, Hajime; Baeck, Andre Cesar; Minamikawa, Kaori; Hartshorn, Richard Timothy; Speed, Lynda Anne; Katsuda, Rinko; Kvietok, Frank Andrej; Mao, Mark Hsiang-kuen; Moss, Michael Alan John; Murata, Susumu; Ohtani, Royohei; Panandiker, Rajan Keshav; Pramod, Kakumanu; Sarnaik, Khizar Mohamed Khan; Thoen, Christian Arthur Jacques Kamiel; Kott, Kevin Lee; Willman, Kenneth William; Cron, Laura; Cripe, Thomas Anthony; Curry, John Downing; Foley, Peter Robert; Dodd, Ian Martin; Manohar, Sanjeev Krishnadas; Okamoto, Mitsuyo
- The Procter & Gamble Company, USA; Asano, Kaori; Scheibel, Jeffrey John; PA Baba, Hajime; Baeck, Andre Cesar; Minamikawa, Kaori; Hartshorn, Richard Timothy; Speed, Lynda Anne; Katsuda, Rinko; Kvietok, Frank Andrej
- PCT Int. Appl., 95 pp. SO
- CODEN: PIXXD2
- Patent DT

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English
LA
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                                          APPLICATION NO. DATE
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     WO 9743388 A2 19971120 WO 1997-US8444
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CN 1225678 A 19990811

CN 1225673 A 19990811

CN 1225675 A 19990811

BR 9710678 A 19990817

JP 11510554 T2 19990914

CN 1220212 A 19990929
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                                          CN 1997-196468
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CN 1997-196494
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JP 1997-541172
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     CN 1230213 A 19990929
CN 1232489 A 19991020
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PRAI US 1996-17883P P 19960517
WO 1997-US8444 W 19970516
     MARPAT 128:36426
os
     The title compns. comprise a bis-alkoxylated quaternary ammonium (AQA)
AB
     cationic surfactant R1R2N+(ApR4)(A'qR4) X- (R1 = linear, branched, or
     substituted C8-18 alkyl, alkenyl, aryl, alkaryl, ether or glycidyl ether
     moiety; R2 = C1-3 alkyl; R3, R4 = H, Me, Et; X- = anion; A, A' = C1-4
     alkoxy; p, q = 1-30), a non-AQA surfactant and enzymes. A laundry
     detergent was prepd. from blown powder comprising anhyd. sodium
     tripolyphosphate 24, Na C14-15 linear alkyl sulfate 8, 1:4 maleic
     acid-acrylic acid copolymer 2, Na dodecylbenzensulfonate 6, Na tallow
     alkyl sulfate 1.5, ethoxylated cocoalkylmethylbis(hydroxyethyl)ammoniúm
     chloride 1.5, silicate 7, CMC 1, brightener 0.2, soap 1, and
     Dequest 2060 0.4 part; spray-on comprising C14-15 alc. ethoxylate
     2.5, C12-15 alc. ethoxylate 2.5, silicone antifoam 0.3, and perfume 0.3
     part; dry additives comprising Na carbonate 6, NaBO2.3H2O.H2O2
     18, NaBO2.H2O2 4, tetraacetylethylenediamine 3, photoactivated
     bleach (sulfonated zinc phthalocyanine encapsulated in bleach
     dextrin sol. polymer) 0.02, protease 1, lipase 0.4, amylase 0.25; dry
     mixed Na sulfate 3.0; and moisture and others to 100 parts.
     The title compns. comprise a bis-alkoxylated quaternary ammonium (AQA)
AB
     cationic surfactant R1R2N+(ApR4)(A'qR4) X- (R1 = linear, branched, or
     substituted C8-18 alkyl, alkenyl, aryl, alkaryl, ether or glycidyl ether
     moiety; R2 = C1-3 alkyl; R3, R4 = H, Me, Et; X- = anion; A, A' = C1-4
     alkoxy; p, q = 1-30), a non-AQA surfactant and enzymes. A laundry
     detergent was prepd. from blown powder comprising anhyd. sodium
     tripolyphosphate 24, Na C14-15 linear alkyl sulfate 8, 1:4 maleic
     acid-acrylic acid copolymer 2, Na dodecylbenzensulfonate 6, Na tallow
     alkyl sulfate 1.5, ethoxylated cocoalkylmethylbis(hydroxyethyl)ammonium
     chloride 1.5, silicate 7, CMC 1, brightener 0.2, soap 1, and
     Dequest 2060 0.4 part; spray-on comprising C14-15 alc. ethoxylate
     2.5, C12-15 alc. ethoxylate 2.5, silicone antifoam 0.3, and perfume 0.3
     part; dry additives comprising Na carbonate 6, NaBO2.3H2O.H2O2
     18, NaBO2.H2O2 4, tetraacetylethylenediamine 3, photoactivated
     bleach (sulfonated zinc phthalocyanine encapsulated in bleach
```

dextrin sol. polymer) 0.02, protease 1, lipase 0.4, amylase 0.25; dry

mixed Na sulfate 3.0; and moisture and others to 100 parts.

L3

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1997:757094 CAPLUS
AN
DN
    128:36425
    Detergent compositions providing excellent cleaning and whiteness
ΤT
    performances on enzyme-sensitive and greasy soils and cleaning and
    building perfumes on surfaces using the same
    Asano, Kaori; Scheibel, Jeffrey John; Baba, Hajime; Baeck, Andre Cesar;
IN
    Minamikawa, Kaori; Cripe, Thomas Anthony; Curry, John Downing; Cron,
    Laura; Dodd, Ian Martin; Hartshorn, Richard Timothy; Speed, Lynda Anne;
    Katsuda, Rinko; Kvietok, Frank Andrej; Mao, Mark Hsiang-kuen; Moss,
    Michael Alan John; Murata, Susumu; Ohtani, Royohei; Panandiker, Rajan
    Keshav; Pramod, Kakumanu; Sarnaik, Khizar Mohamed Khan; Thoen, Christian
    Arthur Jacques Kamiel; Kott, Kevin Lee; Willman, Kenneth William; Okamoto,
    Mitsuyo; Foley, Peter Robert; Manohar, Sanjeev Krishnadas
    Procter and Gamble Company, USA; Asano, Kaori; Scheibel, Jeffrey John;
PA
    Baba, Hajime; Baeck, Andre Cesar; Minamikawa, Kaori; Cripe, Thomas
    Anthony; Curry, John Downing; Cron, Laura; Dodd, Ian Martin
SO
    PCT Int. Appl., 83 pp.
    CODEN: PIXXD2
DT
    Patent
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                    KIND DATE
    PATENT NO.
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    WO 9743387
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    CA 2255012
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                    T2 19991012
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    US 6136769
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    WO 1997-US8436
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    MARPAT 128:36425
OS
    The title compns. comprise an alkoxylated quaternary ammonium (AQA)
AB
     cationic surfactant R1R2R3N+ApR4 X- (R1 = linear, branched, or substituted
     C8-18 alkyl, alkenyl, aryl, alkaryl, ether or glycidyl ether moiety; R2 =
     C1-3 alkyl; R3, R4 = H, Me, Et; X- = anion; A = C1-4 alkoxy; p = 2-30), a
     non-AQA surfactant and enzymes. A laundry detergent was prepd. from blown
    powder comprising anhyd. sodium tripolyphosphate 24, Na C14-15 linear
     alkyl sulfate 8, 1:4 maleic acid-acrylic acid copolymer 2, Na
     dodecylbenzensulfonate 6, Na tallow alkyl sulfate 1.5, ethoxylated
     cocoalkyldimethylhydroxyethylammonium chloride 1.5, silicate 7, CMC 1,
    brightener 0.2, soap 1, and Dequest 2060 0.4 part; spray-on
     comprising C14-15 alc. ethoxylate 2.5, C12-15 alc. ethoxylate 2.5,
     silicone antifoam 0.3, and perfume 0.3 part; dry additives comprising Na
     carbonate 6, NaBO2.3H2O.H2O2 18, NaBO2.H2O2 4,
     tetraacetylethylenediamine 3, photoactivated bleach (sulfonated
     zinc phthalocyanine encapsulated in bleach dextrin sol. polymer) 0.02,
    protease 1, lipase 0.4, amylase 0.25; dry mixed Na sulfate 3.0; and
    moisture and others to 100 parts.
     The title compns. comprise an alkoxylated quaternary ammonium (AQA)
     cationic surfactant R1R2R3N+ApR4 X- (R1 = linear, branched, or substituted
```

C8-18 alkyl, alkenyl, aryl, alkaryl, ether or glycidyl ether moiety; R2 = C1-3 alkyl; R3, R4 = H, Me, Et; X- = anion; A = C1-4 alkoxy; p = 2-30), a non-AQA surfactant and enzymes. A laundry detergent was prepd. from blown powder comprising anhyd. sodium tripolyphosphate 24, Na C14-15 linear alkyl sulfate 8, 1:4 maleic acid-acrylic acid copolymer 2, Na dodecylbenzensulfonate 6, Na tallow alkyl sulfate 1.5, ethoxylated cocoalkyldimethylhydroxyethylammonium chloride 1.5, silicate 7, CMC 1, brightener 0.2, soap 1, and Dequest 2060 0.4 part; spray-on comprising C14-15 alc. ethoxylate 2.5, C12-15 alc. ethoxylate 2.5, silicone antifoam 0.3, and perfume 0.3 part; dry additives comprising Na carbonate 6, NaBO2.3H2O.H2O2 18, NaBO2.H2O2 4, tetraacetylethylenediamine 3, photoactivated bleach (sulfonated zinc phthalocyanine encapsulated in bleach dextrin sol. polymer) 0.02, protease 1, lipase 0.4, amylase 0.25; dry mixed Na sulfate 3.0; and moisture and others to 100 parts.

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ANSWER 97 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1997:366408 CAPLUS
     126:327995
DN
    Vapor sterilization using inorganic hydrogen peroxide complexes
TI
     Jacobs, Paul T.; Lin, Szu-min; Chen, Xiaolan
IN
     Johnson & Johnson Medical, Inc., USA
PA
SO
     PCT Int. Appl., 96 pp.
     CODEN: PIXXD2
DT
     Patent
    English
LΑ
FAN.CNT 6
                    KIND DATE
                                        APPLICATION NO. DATE
    PATENT NO.
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    WO 9715333
PΙ
                    A1
                           19970501
                                          WO 1996-US16570 19961023
        W: AU, BR, CA, JP, KR, MX, NO, SG
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                                                          19951027
                           19970916
                                          US 1995-549425
    US 5667753
                     Α
                                          AU 1996-74462
                                                          19961023
    AU 9674462
                      Α1
                           19970515
    AU 704089
                      B2
                           19990415
                                          EP 1996-936565
                                                          19961023
    EP 862466
                      Α1
                           19980909
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, FI
                                          BR 1996-11152
                                                          19961023
    BR 9611152
                           19991228
    JP 2002515770
                      T2
                           20020528
                                          JP 1997-516655
                                                          19961023
PRAI US 1995-549425
                      Α
                           19951027
    US 1994-234738
                      B2
                           19940428
    US 1995-369786
                      A2
                           19950106
    US 1996-716094
                           19960919
                      Α
     WO 1996-US16570
                      W
                           19961023
    An app. and process for H2O2 vapor sterilization of medical instruments
AB
     and similar devices make use of H2O2 vapor released from an inorg. H2O2
     complex. The peroxide vapor can be released at room temp. and atm.
     pressure; however, the pressure used can be <50 torr and the temp.
     >86.degree. to facilitate the release of H2O2 vapor. Preferred H2O2
     complexes for use in the invention include Na4P2O7.3H2O2 and KH2PO4.H2O2.
     The heating rate can be >5.degree./min. Optionally, a plasma can be used
     in conjunction with the vapor.
     51-45-6D, Histamine, compd. with hydrogen peroxide (H2O2)
                                                                56-40-6D,
IT
    Glycine, compd. with hydrogen peroxide (H2O2), biological studies
     71-00-1D, L-Histidine, compd. with hydrogen peroxide (H2O2), biological
              79-05-0D, Propionamide, compd. with hydrogen peroxide (H2O2)
     96-31-1D, 1,3-Dimethylurea, compd. with hydrogen peroxide (H2O2)
     108-19-0D, Biuret, compd. with hydrogen peroxide (H2O2)
     144-55-8D, Sodium bicarbonate, compd. with hydrogen peroxide (H2O2)
     583-52-8D, Potassium oxalate, compd. with hydrogen peroxide (H2O2)
     584-08-7D, Potassium carbonate, compd. with hydrogen peroxide (H2O2)
     584-09-8D, Rubidium carbonate, compd. with hydrogen peroxide (H2O2)
     1305-62-0D, Calcium hydroxide (Ca(OH)2), compd. with hydrogen peroxide
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with hydrogen peroxide (H2O2) 7601-54-9D, compd. with hydrogen peroxide
                                                               7722-88-5D,
             7722-84-1, Hydrogen peroxide, biological studies
    Tetrasodium pyrophosphate, compd. with hydrogen peroxide (H2O2)
     7778-53-2D, Potassium orthophosphate, compd. with hydrogen peroxide (H2O2)
     9002-89-5D, Poly(vinyl alcohol), compd. with hydrogen peroxide (H2O2)
     9003-01-4D, Poly(acrylic acid), compd. with hydrogen peroxide (H2O2)
     9003-05-8D, Polyacrylamide, compd. with hydrogen peroxide (H2O2)
     9003-09-2D, Poly(vinyl methyl ether), compd. with hydrogen peroxide (H2O2)
     9003-20-7D, Poly(vinyl acetate), compd. with hydrogen peroxide (H2O2)
     9003-39-8D, PVP, compd. with hydrogen peroxide (H2O2)
                                                           9004-35-7D,
    Cellulose acetate, compd. with hydrogen peroxide (H2O2) 9005-22-5D,
    Cellulose sulfate sodium salt, compd. with hydrogen
    peroxide (H2O2)
                     9005-38-3D, Sodium alginate, compd.
    with hydrogen peroxide (H2O2) 15630-89-4, Sodium carbonate peroxide
    25038-54-4D, Nylon 6, compd. with hydrogen peroxide (H2O2) 25038-87-3D,
    Poly(vinyl methyl ketone), compd. with hydrogen peroxide (H2O2)
     25232-41-1D, Poly(4-vinylpyridine), compd. with hydrogen peroxide (H2O2)
    32131-17-2D, Nylon 6,6, compd. with hydrogen peroxide (H2O2)
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BIOL (Biological study)
        (vapor sterilization using inorg. hydrogen peroxide
       complexes)
    7758-29-4DP, Triphosphoric acid pentasodium salt, compd. with hydrogen
IT
    peroxide (H2O2) 13769-85-2P 15362-88-6P
                                                22464-71-7P
                                                             22653-27-6P
    33960-95-1P 52908-87-9P 122040-69-1P, Phosphoric
    acid, trisodium salt, compd. with hydrogen
    peroxide (H2O2) (1:5) 167874-81-9P 189760-17-6P
    189760-18-7P 189760-19-8P
                                 189760-20-1P 189760-21-2P
                                                               189760-22-3P
    189760-24-5P 189760-26-7P
                                 189760-28-9P
                                                189760-29-0P
                                                               189760-31-4P
    189760-33-6P 189760-35-8P
                                 189760-37-0P 189760-39-2P
                                                               189760-43-8P
                                 189760-49-4P 189760-51-8P
                                                               189760-53-0P
    189760-45-0P 189760-48-3P
                                 189760-57-4P 189760-58-5P
                                                               189760-59-6P
    189760-55-2P 189760-56-3P
    189760-60-9P 189760-61-0P
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); BIOL (Biological
     study); PREP (Preparation)
        (vapor sterilization using inorg. hydrogen peroxide
       complexes)
    ANSWER 98 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1997:739355 CAPLUS
DN
    128:41543
    Photographic bleach solution
TI
IN
    Fyson, John Richard
PA
    Eastman Kodak Co., USA
SO
    U.S., 8 pp., Cont. of U.S. Ser. No. 379,034, abandoned.
    CODEN: USXXAM
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                    KIND DATE
                                        APPLICATION NO. DATE
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                                         _____
    US 5683858 A 19971104
                                        US 1996-665991
                                                          19960619
PΙ
PRAI US 1993-94183
                         19930802
    US 1995-379034
                          19950127
OS
    MARPAT 128:41543
    A photog. bleach soln. contains hydrogen peroxide or a compd. capable of
AB
    releasing hydrogen peroxide and two or more sequestering agents capable of
    complexing with a transition metal and selected from the group consisting
    of polyalkylcarboxylic, polyalkylphosphonic, and polyalkylsulfonic acids.
    The bleach soln. has a pH in the alk. range. A method of using such a
    photog. bleach soln. is also disclosed.
    67-43-6, Diethylenetriaminepentaacetic acid 149-45-1, Tiron
                                                                   2809-21-4,
IT
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(H2O2), biological studies 7320-34-5D, Potassium pyrophosphate, compd.

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1-Hydroxyethylidene-1,1-diphosphonic acid
                                                30938-57-9
     RL: TEM (Technical or engineered material use); USES (Uses)
        (photog. bleach solns. contg. hydrogen peroxide
       and)
                                          7785-87-7, Manganese .
TT
     7758-98-7, Copper(II) sulfate, uses
     sulfate
             10028-22-5, Ferric sulfate
     RL: TEM (Technical or engineered material use); USES (Uses)
        (photog. bleach solns. contg. polyalkylcarboxylic, polyalkylphosphonic,
       and polyalkylsulfonic acids and hydrogen peroxide
       and)
    ANSWER 99 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1997:425940 CAPLUS
AN
DN
    127:142741
     Processing silver halide photographic element with non-rehalogenating
TI
    peroxide bleaching composition
    Haye, Shirleyanne Elizabeth; Bertucci, Sidney Joseph; Schmittou, Eric
IN
     Richard
    Eastman Kodak Co., USA
PΑ
    U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 230,365.
SO
     CODEN: USXXAM
DT
     Patent
LA
    English
FAN.CNT 2
                                        APPLICATION NO. DATE
    PATENT NO.
                    KIND DATE
     _____
                                          _____
                                        US 1995-546057 19951020
JP 1995-93915 19950419
    US 5641615 A 19970624
JP 07295170 A2 19951110
PΙ
                     A2 19951110
                          19940420
PRAI US 1994-230365
    MARPAT 127:142741
    An imagewise exposed and developed black-and-white or color silver halide
AB
    photoq. element is effectively bleached using a non-rehalogenating
    peroxide bleaching compn. This bleaching compn. comprises
    hydrogen peroxide or a precursor that can release
    hydrogen peroxide, at least one compd. of the formula
     R(0) nSO3M (R = an org. group having 1-10 C atoms; n = 0 or 1; M = H, an
     alkali or alk. earth metal atom, or an ammonium ion), and a
    phosphonic acid or a salt thereof and a pH of 2-6.
    An imagewise exposed and developed black-and-white or color silver halide
AB
     photog. element is effectively bleached using a non-rehalogenating
     peroxide bleaching compn. This bleaching compn. comprises
     hydrogen peroxide or a precursor that can release
     hydrogen peroxide, at least one compd. of the formula
     R(0) nSO3M (R = an org. group having 1-10 C atoms; n = 0 or 1; M = H, an
     alkali or alk. earth metal atom, or an ammonium ion), and a
     phosphonic acid or a salt thereof and a pH of 2-6.
IT
     Photographic processing
        (nonrehalogenating bleaching compns. contg. hydrogen
       peroxide, sulfonic acids, and phosphonic
        acids for)
     7722-84-1, Hydrogen peroxide, uses
ΙT
     RL: TEM (Technical or engineered material use); USES (Uses)
        (processing silver halide photog. elements with non-rehalogenating
       bleaching compns. contg. sulfonic acids, phosphonic
        acids and)
     ANSWER 100 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
     1997:231426 CAPLUS
     126:294769
DN
     Stabilized, silicate-free, hydrogen peroxide composition for use in
ΤI
     bleaching paper pulp, cotton and cotton blends
     Moore, Samuel B.; Leuck, James F.; Turner, Edwin T.
IN
PA
     Burlington Chemical Co., Inc., USA
     U.S., 5 pp., Cont.-in-part of U.S. 5,464,563.
SO
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CODEN: USXXAM

DT Patent LA English

FAN.CNT 2

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APPLICATION NO. DATE
   PATENT NO.
               KIND DATE
                               US 1995-553886 19951106
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   US 5616280 A 19970401
US 5464563 A 19951107
                                 US 1993-112582 19930825
PRAI US 1993-112582
                     19930825
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The title bleaching compns. with freedom from conventionally used silicate stabilizer are obtained from NaOH, optical brighteners and an enhanced H2O2 (35-50%) contg. 0.05-1% Mg salt, 0.01-0.1% aminoalkylphosphonic acid and 0.01-0.1% dipicolinic acid as stabilizer, with the balance H2O. Textile goods and pulp bleached with the compns. are soft, absorbent, silicate-free with a Hunter Scale whiteness of .gtorsim.85. Because a silicate-free stabilizer is used, low levels of extractable solids are

142-72-3, Magnesium acetate 499-83-2, Dipicolinic acid 1310-58-3, IT Potassium hydroxide, uses 1310-73-2, Sodium hydroxide, uses 7487-88-9, Magnesium sulfate, uses 7722-84-1, Hydrogen peroxide, uses 13598-36-2D, Phosphonic acid, aminoalkyl derivs. RL: TEM (Technical or engineered material use); USES (Uses)

(stabilized, silicate-free, hydrogen peroxide compn. for use in bleaching paper pulp, cotton and cotton blends)

ANSWER 101 OF 158 CAPLUS COPYRIGHT 2003 ACS L<sub>3</sub>

1997:537569 CAPLUS AN

DN 127:140186

Oxidative hair dyes containing glycerides TТ

TN Okawa, Juichi; Hatanaka, Katsuto

PΑ Yamahatsu Sangyo Kaisha, Ltd., Japan

Jpn. Kokai Tokkyo Koho, 19 pp. SO

CODEN: JKXXAF

DTPatent

Japanese

FAN.CNT 1

L3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI JP 09169623	A2	19970630	JP 1996-100983	19960423	
PRAT JP 1995-2724	85	19951020			

Hair dyes comprise oxidative dyes, oxidants, and glycerol triesters. The prepn. provides effective hair dyeing at mild conditions, i.e. low pH, low concn. at a short time. A first prepn. contg. polyoxyethylene nonylphenyl ether 20, geraniol-modified alc. 10, and ammonia soln. (29 %) 5, p-phenylenediamine 0.3, m-phenylenediamine.cntdot.HCl 0.4, p-aminophenol 0.8, ammonium thioglycolate 0.4, Na edetate 0.2, triacetylglycerin 2, and distd. water to 100 parts, was mixed with a second prepn. contg. Na polyoxyethylene lauryl sulfate 2, cetanol 1.5, phosphoric acid 0.0002, H2O2 soln. (35 %) 17, and distd. water to 100 parts. The final product (1:1 mixt.) showed improved hair dyeing effects.

Hair dyes comprise oxidative dyes, oxidants, and glycerol triesters. The AB prepn. provides effective hair dyeing at mild conditions, i.e. low pH, low concn. at a short time. A first prepn. contg. polyoxyethylene nonylphenyl ether 20, geraniol-modified alc. 10, and ammonia soln. (29 %) 5, p-phenylenediamine 0.3, m-phenylenediamine.cntdot.HCl 0.4, p-aminophenol 0.8, ammonium thioglycolate 0.4, Na edetate 0.2, triacetylglycerin 2, and distd. water to 100 parts, was mixed with a second prepn. contg. Na polyoxyethylene lauryl sulfate 2, cetanol 1.5, phosphoric acid 0.0002, H202 soln. (35 %) 17, and distd. water to 100 parts. The final product (1:1 mixt.) showed improved hair dyeing effects.

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AN
    1997:397122 CAPLUS
DN
    127:36237
    Liquid bleach compositions with good storability at low temperature
TΤ
    Miyamae, Yoshitaka; Shindo, Hiroyuki
IN
PA
    Lion Corp., Japan
     Jpn. Kokai Tokkyo Koho, 8 pp.
SO
     CODEN: JKXXAF
DT
    Patent
LA
    Japanese
FAN.CNT 1
    PATENT NO. KIND DATE
                                    APPLICATION NO. DATE
                                         -----
     -----
PI JP 09104900 A2 19970422 JP 1995-287834 19951009 PRAI JP 1995-287834 19951009
    MARPAT 127:36237
OS
    The title compns. (pH 2.5-4.5) contain (A) surfactant(s) chosen from
AB
     R10(CH2CH2O)nH, R1C6H4O(CH2CH2O)nH, and R1N+Me2CH2CH2CH2SO3-, (B)
     surfactant(s) chosen from R2Me2N.fwdarw.O, R2Me2N+CH2CH2CH2CO2-, R2O(Glu)m
     glucoside, and R2CO2(Glu-OMe), linear alkylbenzenesulfonates,
     .alpha.-olefinsulfoantes, and polyethylene glycol alkyl or alkenyl ether
     sulfate salts; (C) 0.5-10% hydrogen peroxide,
     (D) 0.2-5% R3CO2C6H4Z peroxide precursor, and (E) 0.001-5% org. peroxy
     compds. R4COOOH (R1, R2 = C8-18 alkyl, alkenyl; n = 2-30; m = 1-10; R3 =
     C7-12 alkyl; Z = CO2H, CO2M, SO3H, SO3M; M = alkali metal; R4 = C2-12
     alkyl) at B/A ratio 1/0 to 10/1 and A + B content 5-30%. A compn. (pH 3)
     comprised C13H270(CH2CH2O)9H 20, dodecyldimethylamine oxide 2,
     H202 5, C7H15CO2C6H4SO3Na 1, peroctanoic acid 2,
     ethane-1-hydroxy-1,1-diphosphonic acid 0.1, and water to 100%.
     The title compns. (pH 2.5-4.5) contain (A) surfactant(s) chosen from
AB
     R10(CH2CH2O)nH, R1C6H4O(CH2CH2O)nH, and R1N+Me2CH2CH2CH2SO3-, (B)
     surfactant(s) chosen from R2Me2N.fwdarw.O, R2Me2N+CH2CH2CH2CO2-, R2O(Glu)m
     glucoside, and R2CO2(Glu-OMe), linear alkylbenzenesulfonates,
     .alpha.-olefinsulfoantes, and polyethylene glycol alkyl or alkenyl ether
     sulfate salts; (C) 0.5-10% hydrogen peroxide,
     (D) 0.2-5% R3CO2C6H4Z peroxide precursor, and (E) 0.001-5% org. peroxy
     compds. R4COOOH (R1, R2 = C8-18 alkyl, alkenyl; n = 2-30; m = 1-10; R3 =
     C7-12 alkyl; Z = CO2H, CO2M, SO3H, SO3M; M = alkali metal; R4 = C2-12
     alkyl) at B/A ratio 1/0 to 10/1 and A + B content 5-30%. A compn. (pH 3)
     comprised C13H270(CH2CH2O)9H 20, dodecyldimethylamine oxide 2,
     H2O2 5, C7H15CO2C6H4SO3Na 1, peroctanoic acid 2,
     ethane-1-hydroxy-1,1-diphosphonic acid 0.1, and water to 100%.
    ANSWER 103 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1997:397123 CAPLUS
AN
DN
    127:36239
    Liquid bleach compositions with good storability and fragrance retention
TI
    Miyamae, Yoshitaka; Fukano, Kazuaki
IN
PA
    Lion Corp., Japan
     Jpn. Kokai Tokkyo Koho, 11 pp.
SO
    CODEN: JKXXAF
DT
     Patent
    Japanese
LA
FAN.CNT 1
     PATENT NO. KIND DATE
                                  APPLICATION NO. DATE
     _____
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                                         -----
    JP 09104898 A2 19970422
                                        JP 1995-287833 19951009
PΙ
                         19951009
PRAI JP 1995-287833
    MARPAT 127:36239
    The title compns. (pH 2.5-4.5) contain (A) surfactant(s) chosen from
AB
    R10(CH2CH2O)nH, R1C6H4O(CH2CH2O)nH, and R1N+Me2CH2CH2CH2SO3-, (B)
     surfactant(s) chosen from R2Me2N.fwdarw.O, R2Me2N+CH2CH2CH2CO2-, R2O(Glu)m
    glucoside, and R2CO2(Glu-OMe), linear alkylbenzenesulfonates,
     .alpha.-olefinsulfoantes, and polyethylene glycol alkyl or alkenyl ether
     sulfate salts; (C) 0.5-10% hydrogen peroxide,
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(D) 0.2-5% R3CO2C6H4Z peroxide precursor, and 0.001-5% phenolic compds.
     (R1, R2 = C8-18 \text{ alkyl}, \text{ alkenyl}; n = 2-30; m = 1-10; R3 = C7-12 \text{ alkyl}; Z =
     CO2H, CO2M, SO3H, SO3M; M = alkali metal) at B/A ratio 1/0 to 10/1 and A +
     B content 5-30%. A compn. (pH 3) comprised C13H27O(CH2CH2O)9H 20,
     H202 5, C7H15C02C6H4SO3Na 2, PhOH 2, ethane-1-hydroxy-1,1-
     diphosphonic acid 0.1, perfume mixt. 0.1, and water to 100%.
     The title compns. (pH 2.5-4.5) contain (A) surfactant(s) chosen from
AB
     R10(CH2CH2O)nH, R1C6H4O(CH2CH2O)nH, and R1N+Me2CH2CH2CH2SO3-, (B)
     surfactant(s) chosen from R2Me2N.fwdarw.O, R2Me2N+CH2CH2CH2CO2-, R2O(Glu)m
     glucoside, and R2CO2(Glu-OMe), linear alkylbenzenesulfonates,
     .alpha.-olefinsulfoantes, and polyethylene glycol alkyl or alkenyl ether
     sulfate salts; (C) 0.5-10% hydrogen peroxide,
     (D) 0.2-5% R3CO2C6H4Z peroxide precursor, and 0.001-5% phenolic compds.
     (R1, R2 = C8-18 \text{ alkyl}, \text{ alkenyl}; n = 2-30; m = 1-10; R3 = C7-12 \text{ alkyl}; Z =
     CO2H, CO2M, SO3H, SO3M; M = alkali metal) at B/A ratio 1/0 to 10/1 and A +
     B content 5-30%. A compn. (pH 3) comprised C13H27O(CH2CH2O)9H 20,
     H2O2 5, C7H15CO2C6H4SO3Na 2, PhOH 2, ethane-1-hydroxy-1,1-
     diphosphonic acid 0.1, perfume mixt. 0.1, and water to 100%.
L3
    ANSWER 104 OF 158 CAPLUS COPYRIGHT 2003 ACS
     1997:346911 CAPLUS
AN
     127:19977
DN
     Thermally stable liquid hydrogen peroxide-based bleaching compositions
TI
    Miyamae, Yoshitaka; Fukano, Kazuaki
IN
PA
    Lion Corp., Japan
     Jpn. Kokai Tokkyo Koho, 6 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
FAN.CNT 1
                    KIND DATE
                                         APPLICATION NO. DATE
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                                          -----
    JP 09078094 A2 19970325
                                          JP 1995-259348 19950912
PRAI JP 1995-259348
                          19950912
     The compns. (pH 2-5), suitable for removal of fruit or vegetable stains
     from fabrics, contain (A) H2O2 2.0-10, (B) double bond-contg. anionic
     surfactants 0.5-10, (C) non-crosslinkable carboxylic acid-based polymers
     1.0-10, and (D) org. P compds. 0-3.0%. Thus, an aq. soln. (pH 4.0) contg...
     H2O2 5, poly(Na acrylate) 3, a 6:4 mixt. of Na C14
     .alpha.-olefinsulfonate and Na hydroxymyristylsulfonate 3, and Ferriox CY
     115 (1-hydroxyethylidene-1,1-diphosphonic acid) 0.5% was applied
     on a fabric stained with grape juice to show good bleaching effect.
AB
     The compns. (pH 2-5), suitable for removal of fruit or vegetable stains
     from fabrics, contain (A) H2O2 2.0-10, (B) double bond-contg. anionic
     surfactants 0.5-10, (C) non-crosslinkable carboxylic acid-based polymers
     1.0-10, and (D) org. P compds. 0-3.0%. Thus, an aq. soln. (pH 4.0) contg.
     H2O2 5, poly(Na acrylate) 3, a 6:4 mixt. of Na C14
     .alpha.-olefinsulfonate and Na hydroxymyristylsulfonate 3, and Ferriox CY
     115 (1-hydroxyethylidene-1,1-diphosphonic acid) 0.5% was applied
     on a fabric stained with grape juice to show good bleaching effect.
     Sulfonic acids, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (alkene, sodium salts; thermally stable liq. hydrogen
       peroxide-based bleaching compns. for fabrics)
     2809-21-4, 1-Hydroxyethylidene-1,1-diphosphonic acid
     RL: TEM (Technical or engineered material use); USES (Uses)
        (Ferriox CY 115; thermally stable liq. hydrogen
       peroxide-based bleaching compns. for fabrics)
    ANSWER 105 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1997:481079 CAPLUS
AN
     127:92433
DN
    Assay utilizing hydrogen peroxide adduct
ΤI
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Kuzuya, Keiko; Yamauchi, Tadakazu

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SO
    Eur. Pat. Appl., 53 pp.
    CODEN: EPXXDW
DT
    Patent
LA
    English
FAN.CNT 1
                                          APPLICATION NO. DATE
    PATENT NO. KIND DATE
                                          -----
     ______
    EP 781850 A2
                           19970702
                                         EP 1996-120736 19961223
PΤ
    EP 781850
                     A3 19980812
        R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL,
            PT, SE
                     AA
                           19970629
                                          CA 1996-2193918 19961224
    CA 2193918
    JP 09234097
US 5858645
                    A2 19970909
                                          JP 1996-349790
                                                          19961227
                    A 19990112
                                          US 1996-773181 19961227
PRAI JP 1995-343822
                           19951228
    Improvement in assays utilizing at least hydrogen peroxide for one anal.
    reagent is provided. The assay of the present invention employs a stable
    hydrogen peroxide adduct in dry state that has no adverse effects on the
    assay and that has a high hydrogen peroxide-retaining ability. In the
    assay, an aq. soln. is added to an adduct in dry state of (1) at least one
    member selected from the group consisting of a carboxylic acid and a salt
    thereof, phosphoric acid and a salt thereof, and a
     sulfonic acid and a salt thereof and (2) hydrogen
    peroxide to generate peroxide, and the thus generated peroxide is
    used for the anal. reagent.
    Improvement in assays utilizing at least hydrogen peroxide for one anal.
AB
    reagent is provided. The assay of the present invention employs a stable
    hydrogen peroxide adduct in dry state that has no adverse effects on the
    assay and that has a high hydrogen peroxide-retaining ability. In the
    assay, an aq. soln. is added to an adduct in dry state of (1) at least one
    member selected from the group consisting of a carboxylic acid and a salt
    thereof, phosphoric acid and a salt thereof, and a
    sulfonic acid and a salt thereof and (2) hydrogen
    peroxide to generate peroxide, and the thus generated peroxide is
    used for the anal. reagent.
    hydrogen peroxide adduct dry reagent analysis; carboxylate adduct hydrogen
ST
    peroxide dry reagent; phosphate adduct hydrogen peroxide dry reagent;
    sulfonate adduct hydrogen peroxide dry
    reagent; immunoassay hydrogen peroxide dry reagent
IT
    Sulfonic acids, uses
    RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical
    process); ANST (Analytical study); PROC (Process); USES (Uses)
        (amino alkane, hydrogen peroxide adducts;
       hydrogen peroxide adducts in stable dry anal.
       reagent)
IT
    Sulfonic acids, uses
    RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical
    process); ANST (Analytical study); PROC (Process); USES (Uses)
        (amino alkane, salts, hydrogen peroxide adducts;
       hydrogen peroxide adducts in stable dry anal.
       reagent)
    Carboxylic acids, uses
TT
    Phosphates, uses
      Sulfonates
      Sulfonic acids, uses
    RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (hydrogen peroxide adducts; hydrogen
       peroxide adducts in stable dry anal. reagent)
IT
    Sulfonic acids, uses
    RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical
    process); ANST (Analytical study); PROC (Process); USES (Uses)
        (hydroxy alkane, hydrogen peroxide adducts;
       hydrogen peroxide adducts in stable dry anal.
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Mochida Pharmaceutical Co., Ltd., Japan

PA

reagent)

IT Sulfonic acids, uses

RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)

(hydroxy alkane, salts, hydrogen peroxide adducts; hydrogen peroxide adducts in stable dry anal.

reagent)

IT Sulfonic acids, uses

RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)

(hydroxy benzene, hydrogen peroxide adducts;

hydrogen peroxide adducts in stable dry anal.

reagent)

IT · Sulfonic acids, uses

RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses)

(hydroxy benzene, salts, hydrogen peroxide adducts;

hydrogen peroxide adducts in stable dry anal.

reagent)

IT 7664-38-2D, Phosphoric acid, hydrogen

peroxide adducts, uses 7722-84-1D, Hydrogen peroxide, adducts 81398-06-3

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (hydrogen peroxide adducts in stable dry anal.

reagent)

50-81-7D, Ascorbic acid, 50-21-5D, hydrogen peroxide adducts, uses IT hydrogen peroxide adducts, uses 50-99-7D, D-Glucose, hydrogen peroxide 56-41-7D, L-Alanine, hydrogen peroxide adducts, uses adducts, uses 56-45-1D, L-Serine, hydrogen peroxide adducts, uses 56-86-0D, L-Glutamic acid, hydrogen peroxide adducts, uses 57-13-6D, Urea, hydrogen peroxide 59-23-4D, Galactose, adducts, uses 57-50-1D, hydrogen peroxide adducts 60-27-5D, Creatinine, hydrogen peroxide hydrogen peroxide adducts 60-35-5D, Acetamide, hydrogen peroxide adducts, uses Lactose, hydrogen peroxide adducts 64-19-7D, Acetic acid, hydrogen 69-65-8D, Mannitol, hydrogen peroxide adducts peroxide adducts, uses 69-79-4D, Maltose, hydrogen peroxide adducts 72-19-5D, L-Threonine, 74-89-5D, Methylamine, hydrogen peroxide hydrogen peroxide adducts, uses 77-92-9D, hydrogen peroxide adducts, uses 79-09-4D, Propionic adducts acid, hydrogen peroxide adducts, uses 79-14-1D, Glycolic acid, hydrogen peroxide adducts, uses 87-69-4D, L-(+)-Tartaric acid, hydrogen peroxide 88-99-3D, 1,2-Benzenedicarboxylic acid, hydrogen peroxide adducts, uses 97-67-6D, (S)-(-)-Malic acid, hydrogen peroxide adducts adducts, uses 98-98-6D, Picolinic acid, hydrogen peroxide adducts 99-20-7D, Trehalose, hydrogen peroxide adducts 100-21-0D, 1,4-Benzenedicarboxylic acid, hydrogen peroxide adducts, uses 107-35-7D, Taurine, hydrogen peroxide 107-36-8D, Isethionic acid, hydrogen peroxide adducts adducts 110-15-6D, Butanedioic acid, hydrogen peroxide adducts, uses 110-16-7, 2-Butenedioic acid (Z)-, uses 110-17-8D, 2-Butenedioic acid (E)-, hydrogen peroxide adducts, uses 110-99-6D, Diglycolic acid, hydrogen 111-16-0D, Pimelic acid, hydrogen peroxide adducts peroxide adducts 121-34-6D, Vanillic acid, hydrogen peroxide adducts 121-91-5D, 1,3-Benzenedicarboxylic acid, hydrogen peroxide adducts, uses 124-04-9D. 127-07-1D, Hydroxyurea, Adipic acid, hydrogen peroxide adducts, uses hydrogen peroxide adducts 127-17-3D, Pyruvic acid, hydrogen peroxide adducts, uses 133-37-9D, DL-Tartaric acid, hydrogen peroxide adducts 141-43-5D, hydrogen 140-95-4D, Dimethylolurea, hydrogen peroxide adducts peroxide adducts 141-82-2D, Malonic acid, hydrogen peroxide adducts, 142-45-0D, Acetylenedicarboxylic acid, hydrogen peroxide adducts 144-62-7D, Ethanedioic acid, hydrogen peroxide adducts, uses 156-38-7D, 328-42-7D, 4-Hydroxyphenylacetic acid, hydrogen peroxide adducts ide adducts 328-50-7D, 2-Ketoglutaric 372-75-8D, L-Citrulline, hydrogen Oxaloacetic acid, hydrogen peroxide adducts acid, hydrogen peroxide adducts peroxide adducts 462-60-2D, Hydantoic acid, hydrogen peroxide adducts 473-81-4D, DL-Glyceric acid, hydrogen peroxide adducts 498-21-5D,

Methylsuccinic acid, hydrogen peroxide adducts 498-23-7D, Citraconic acid, hydrogen peroxide adducts 498-40-8D, L-Cysteic acid, hydrogen 503-49-1D, 3-Hydroxy-3-methylglutaric acid, hydrogen peroxide adducts 503-66-2D, 3-Hydroxypropionic acid, hydrogen peroxide peroxide adducts 505-48-6D, Octanedioic acid, hydrogen peroxide adducts adducts 516-05-2D, Methylmalonic acid, hydrogen peroxide adducts 526-95-4D, Gluconic acid, hydrogen peroxide adducts 526-99-8D, Mucic acid, hydrogen 542-05-2D, 3-Ketoglutaric acid, hydrogen peroxide peroxide adducts adducts 543-24-8D, N-Acetylglycine, hydrogen peroxide adducts 597-43-3D, 2,2-Dimethylsuccinic acid, hydrogen peroxide adducts 610-09-3D, cis-1,2-Cyclohexanedicarboxylic acid, hydrogen peroxide adducts 610-35-5D, 4-Hydroxyphthalic acid, hydrogen peroxide adducts 618-83-7D, hydrogen peroxide adducts 626-51-7D, 3-Methylglutaric acid, hydrogen 636-46-4D, 4-Hydroxyisophthalic acid, hydrogen peroxide peroxide adducts 1076-97-7D, 1,4-Cyclohexanedicarboxylic acid, hydrogen peroxide adducts 1483-07-4D, Albizziine, hydrogen peroxide adducts 2305-32-0D, adducts trans-1,2-Cyclohexanedicarboxylic acid, hydrogen peroxide adducts 3233-59-8D, hydrogen peroxide adducts 4023-65-8D, trans-Aconitic acid, hydrogen peroxide adducts 4534-68-3D, meso-Butane-1,2,3,4tetracarboxylic acid, hydrogen peroxide adducts 4767-03-7D, hydrogen 6236-09-5D, (S)-(+)-Citramalic acid, hydrogen peroxide peroxide adducts 6556-12-3D, Glucuronic acid, hydrogen peroxide adducts adducts 6915-15-7D, DL-Malic acid, hydrogen peroxide adducts 6940-58-5D, 1,3,5-Pentanetricarboxylic acid, hydrogen peroxide adducts 7440-09-7D, Potassium, salts, uses 7440-23-5D, Sodium, salts, uses 7512-17-6D, hydrogen peroxide adducts 7632-05-5D, Sodium phosphate, hydrogen 7647-14-5, Sodium chloride (NaCl), uses peroxide adducts 9003-01-4D, Polyacrylic acid, hydrogen peroxide adducts 9004-32-4D, Sodium carboxymethylcellulose, hydrogen peroxide adducts 9004-54-0D, Dextran, hydrogen peroxide adducts, uses 9005-38-3D, Sodium alginate, hydrogen 9082-07-9D, Sodium chondroitin sulfate, peroxide adducts hydrogen peroxide adducts 16068-46-5D, Potassium phosphate, hydrogen peroxide adducts 23351-51-1D, Glucoheptonic acid, hydrogen peroxide adducts 25322-68-3D, hydrogen peroxide adducts 25525-21-7D, Glucaric acid, hydrogen peroxide adducts 26239-55-4D 26239-55-4D, N-(2-Acetamido)iminodiacetic acid, hydrogen peroxide adducts RL: ARG (Analytical reagent use); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC (Process); USES (Uses) (hydrogen peroxide adducts in stable dry anal. reagent)

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1997:145194 CAPLUS
ΑN
     126:145623
DN
     Laundry pre-treatment agent with improved fabric/color safety
TI
     Del, Duca Valerio; Ricci, Carlo; Trani, Marina
IN
PA
     The Procter & Gamble Company, USA
SO
     Eur. Pat. Appl., 13 pp.
     CODEN: EPXXDW
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                    KIND DATE
                                          APPLICATION NO. DATE
                                          -----
     ______
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                     A1 19970108 EP 1995-870082 19950705
    EP 752469
PΙ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
                                          CA 1996-2226105 19960614
     CA 2226105
                     AA
                            19970123
                                           WO 1996-US10347 19960614
     WO 9702331
                            19970123
                      A1
        W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE,
            ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NZ, PL, PT, RO, RU, SD, SE, SG,
             SI, SK
        RW: KE, LS, MW, SD, SZ, UG, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
             NE, SN, TD, TG
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ANSWER 106 OF 158 CAPLUS COPYRIGHT 2003 ACS

 $L_3$ 

AU 9661778 A1	19970205	AU	1996-61778	19960614
AU 706041 B2	19990610			
CN 1195366 A	19981007	CN	1996-196749	19960614
BR 9609555 A	19990302	BR	1996-9555	19960614
JP 11513050 T2	19991109	JΡ	1996-505154	19960614
RU 2145630 C1	20000220	RU	1998-102028	19960614
NZ 310889 A	20000228	NZ	1996-310889	19960614
FI 9800009 A	19980204	FΙ	1998-9	19980102
US 6001794 A	19991214	US	1998-981950	19980326
PRAI EP 1995-870082 A	19950705			
WO 1996-US10347 W	19960614			

- AB The use of a liq. compn. comprising a peroxygen bleach and .gtoreq.1 radical scavenger, for pretreating soiled fabrics before the fabrics are washed, shows reduced loss of tensile strength in the fabrics and/or reduced color damage of the fabrics. A compn. contg. alkyl sulfate, Dobanol 91-10, Dobanol 23-3, Dequest, H2O2, Isofol 12, BHT, and water applied as pre-treatment agent to cotton ribbons showed tensile strength loss 18%, vs. 42% for a compn. not contg. BHT. Addn. of hydroquinone to the above compn. further reduced tensile strength loss to 6%.
- The use of a liq. compn. comprising a peroxygen bleach and .gtoreq.1 radical scavenger, for pretreating soiled fabrics before the fabrics are washed, shows reduced loss of tensile strength in the fabrics and/or reduced color damage of the fabrics. A compn. contg. alkyl sulfate, Dobanol 91-10, Dobanol 23-3, Dequest, H2O2, Isofol 12, BHT, and water applied as pre-treatment agent to cotton ribbons showed tensile strength loss 18%, vs. 42% for a compn. not contg. BHT. Addn. of hydroquinone to the above compn. further reduced tensile strength loss to 6%.
- L3 ANSWER 107 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1997:274146 CAPLUS
- DN 126:343432
- TI A halide-free method for olefin epoxidation with 30% hydrogen peroxide
- AU Sato, Kazuhiko; Aoki, Masao; Ogawa, Masami; Hashimoto, Tadashi; Panyella, David; Noyori, Ryoji
- CS Dep. Chem. and Molecular Chirality Res. Unit, Nagoya Univ., Nagoya, 464-01, Japan
- SO Bulletin of the Chemical Society of Japan (1997), 70(4), 905-915 CODEN: BCSJA8; ISSN: 0009-2673
- PB Nippon Kagakkai
- DT Journal
- LA English
- OS CASREACT 126:343432
- A catalytic system consisting of sodium tungstate dihydrate, (aminomethyl) AB phosphonic acid, and methyltrioctylammonium hydrogen sulfate, effects the epoxidn. of olefins using 30% hydrogen peroxide with a substrate-to-catalyst molar ratio of 50-500. The reaction proceeds in high yield without solvents, or, alternatively, with added toluene under entirely halide-free conditions. Lipophilic ammonium hydrogen sulfate, which replaces the conventional chloride, and an (.alpha.-aminoalkyl)phosphonic acid are crucial for the high reactivity. This method is operationally simple, environmentally benign, and much more economical than the oxidn. with m-chloroperbenzoic acid, allowing for a large-scale prepn. of epoxides. Various substrates including terminal olefins, 1,1- and 1,2-disubstituted olefins, cyclic olefins, and tri- and tetrasubstituted olefins as well as allylic alcs., esters, .alpha.,.beta.-unsatd. ketones, and ethers can be epoxidized in high yield. The scope and limitations of this new reaction system are discussed.
- AB A catalytic system consisting of sodium tungstate dihydrate, (aminomethyl) phosphonic acid, and methyltrioctylammonium hydrogen sulfate, effects the epoxidn. of olefins using 30% hydrogen peroxide with a substrate-to-catalyst molar

ratio of 50-500. The reaction proceeds in high yield without solvents, or, alternatively, with added toluene under entirely halide-free conditions. Lipophilic ammonium hydrogen sulfate, which replaces the conventional chloride, and an (.alpha.-aminoalkyl)phosphonic acid are crucial for the high reactivity. This method is operationally simple, environmentally benign, and much more economical than the oxidn. with m-chloroperbenzoic acid, allowing for a large-scale prepn. of epoxides. Various substrates including terminal olefins, 1,1- and 1,2-disubstituted olefins, cyclic olefins, and tri- and tetrasubstituted olefins as well as allylic alcs., esters, .alpha.,.beta.-unsatd. ketones, and ethers can be epoxidized in high yield. The scope and limitations of this new reaction system are discussed. Epoxidation catalysts (halide-free epoxidn. of olefins with hydrogen peroxide catalyzed by sodium tungstate dihydrate, (aminomethyl) phosphonic acid, and methyltrioctylammonium hydrogen 1066-51-9, (Aminomethyl) phosphonic acid 13472-45-2, Sodium tungstate 59158-14-4, Methyltrioctylammonium hydrogen sulfate RL: CAT (Catalyst use); USES (Uses) (halide-free epoxidn. of olefins with hydrogen peroxide) ANSWER 108 OF 158 CAPLUS COPYRIGHT 2003 ACS 1996:676090 CAPLUS 125:308644 Aerosols containing hydrogen peroxide Kawase, Jiro Kao Corp, Japan Jpn. Kokai Tokkyo Koho, 18 pp. CODEN: JKXXAF Patent Japanese FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----------JP 1995-64984 19950227 A2 JP 08231345 19960910 PRAI JP 1995-64984 19950227 An aerosol is constructed such that the H2O2 compn. is stabilized for a long period and used for spraying odorous substances from hair bleach, hair color, waving lotion, cleanser, etc. A bag made of ethylene-vinyl alc. copolymer, polypropylene, polyacrylonitrile, polyethylene terephthalate, etc., contains H2O2 and it is placed in a metallic cylindrical container, and a compressed gas is filled in the space between the bag and the cylindrical container. 134-31-6, Oxyquinoline sulfate 7664-38-2, Phosphoric acid, uses RL: NUU (Other use, unclassified); USES (Uses) (in aerosols contg. hydrogen peroxide) ANSWER 109 OF 158 CAPLUS COPYRIGHT 2003 ACS 1996:672616 CAPLUS 125:308658 Double-layered wall bag-type aerosol containers for hydrogen peroxide-containing hair sprays Kawase, Jiro Kao Corp, Japan Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF Patent Japanese FAN.CNT 1

APPLICATION NO. DATE

IT

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PATENT NO.

KIND DATE

JP 08230959 A2 19960910 JP 1995-64983 19950227 PΙ 19950227 PRAI JP 1995-64983 Hydrogen peroxide-contg. hair spray compns. are filled into double-layered wall bag-type aerosol containers to improve the storage stability. The containers comprise an outer can, an inner bag ( as wall bag), and a valve for aerosol release. The hair aerosol compns. contained a propellant (i.e. liquefied petroleum gas), stabilizer selected from phosphoric acid and oxyquinolin sulfate, and pH 1.0-4.0 hydrogen peroxide soln. in addn. to other ingredients. Hydrogen peroxide-contg. hair spray compns. are filled into double-layered AB wall bag-type aerosol containers to improve the storage stability. containers comprise an outer can, an inner bag ( as wall bag), and a valve for aerosol release. The hair aerosol compns. contained a propellant (i.e. liquefied petroleum gas), stabilizer selected from phosphoric acid and oxyquinolin sulfate, and pH 1.0-4.0 hydrogen peroxide soln. in addn. to other ingredients. 134-31-6, Oxyquinoline sulfate 7664-38-2, Phosphoric ITacid, biological studies 7722-84-1, Hydrogen peroxide, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (hydrogen peroxide-contg. hair spray compns. in double-layered wall bag-type aerosol containers to improve the storage stability) ANSWER 110 OF 158 CAPLUS COPYRIGHT 2003 ACS 1.3 1996:649311 CAPLUS AN 125:279302 DN ΤI Oxygen bleach compositions with no irritating odor IN Saiqa, Koji; Yamada, Hiroyuki Kao Corp, Japan PA Jpn. Kokai Tokkyo Koho, 10 pp. SO CODEN: JKXXAF DТ Patent LA Japanese FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----\_\_\_\_\_\_ -----\_\_\_\_\_ JP 08209194 A2 19960813 JP 1995-17043 19950203 PΤ PRAI JP 1995-17043 19950203 OS MARPAT 125:279302 Title compns., useful as household bleaches for removing molds, contain AB (A) H2O2 or peroxides capable of forming H2O2 in H2O 0.1-98, (B) bleaching activators 0.002-70, and (C) H2O-sol. azides 0.00001-10%. Thus, an aq. soln. contg. H2O2 6, PhO(CH2CH2O)2CH2CO2CH2CH2SO3Na 15, Dequest 2015DN 0.1% was mixed with an aq. soln. contg. 0.0003% NaN3 and 20% K2CO3 to obtain a bleach showing good bleaching effects on an ABS resin plate stained by Cladosporium herbarum. Title compns., useful as household bleaches for removing molds, contain ΔR (A) H2O2 or peroxides capable of forming H2O2 in H2O 0.1-98, (B) bleaching activators 0.002-70, and (C) H2O-sol. azides 0.00001-10%. Thus, an aq. soln. contg. H2O2 6, PhO(CH2CH2O)2CH2CO2CH2CH2SO3Na 15, Dequest 2015DN 0.1% was mixed with an aq. soln. contg. 0.0003% NaN3 and 20% K2CO3 to obtain a bleach showing good bleaching effects on an ABS resin plate stained by Cladosporium herbarum. hydrogen peroxide azide sulfonate bleach STodorless ITBleaching agents Fungicides and Fungistats (odorless bleaches contg. hydrogen peroxide, azides, and sulfonate derivs. for removing molds)

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IT
     135261-32-4
                  162136-44-9
     RL: TEM (Technical or engineered material use); USES (Uses)
        (bleaching activators; odorless bleaches contg. hydrogen
       peroxide, azides, and sulfonate derivs. for removing
    7722-84-1, Hydrogen peroxide, uses 26628-22-8,
IT
     Sodium azide
     RL: TEM (Technical or engineered material use); USES (Uses)
        (odorless bleaches contg. hydrogen peroxide,
       azides, and sulfonate derivs. for removing molds)
    ANSWER 111 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1996:271293 CAPLUS
DN
     124:320187
    Bleaching detergent compositions containing hydrogen peroxide generators
TI
     and peroxo acid precursors
    Ogura, Nobuyuki; Aoyanagi, Muneo; Yamaguchi, Yukyoshi; Tsucha, Shigemi
IN
PA
    Kao Corp, Japan
SO
     Jpn. Kokai Tokkyo Koho, 11 pp.
    CODEN: JKXXAF
DT
    Patent
LΑ
    Japanese
FAN.CNT 1
    PATENT NO.
                  KIND DATE
                                        APPLICATION NO. DATE
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                                          -----
                                          JP 1994-177068 19940728
PΙ
    JP 08041493
                    A2
                         19960213
                          19940728
PRAI JP 1994-177068
    MARPAT 124:320187
AB
    Title compns., which show high detergency for oily soils without bleaching
    dyed colors, contain 1-95% inorg. peroxides generating H2O2 in H2O,
     0.1-30% RCOL [R = ((substituted and/or connecting group-contg.) C5-22
     alkyl-, alkenyl-, C1-18 alkyl-, alkenyl-substituted) aryl; L = leaving
    group] as precursors of peroxo acid bleaching agents, 0.1-100 ppm
     .gtoreg.1 metal cation(s) chosen from Mn, Cu, and Fe, and 0.1-50% anionic,
    nonionic, cationic, and/or amphoteric surfactants. The peroxo acid
    precursors show HLB .ltoreq.23 measured by the method of J. T. Davies
     [Proc. Intern. Cong. Surface Active Substances, 2nd (London), vol. 1, p426
     (1957)] and generate .gtoreq.1 mM RCO3COR (R = same as above) from aq.
     solns. contg. 10 mM the precursors and 50 mM H2O2 at 20.degree. 10 min
    after. Thus, Na2C2O6 80, 4-C8H17CO2C6H4SO3Na 5, C12H25OSO3Na 5, Na
    ethane-1-hydroxy-1,1-diphosphonate 5 parts, and 30 ppm (as metal ion)
    Fe3(PO4)2 were mixed to give a bleaching compn.
    60-00-4, EDTA, uses 151-21-3, Sodium dodecyl sulfate, uses
TT
    1313-13-9, Manganese oxide (MnO2), uses 2211-98-5, Sodium
     4-dodecylbenzenesulfonate 3645-16-7, Ferrous octanoate
                                                              7414-83-7,
     Sodium ethane-1-hydroxy-1,1-diphosphonate 7439-89-6, Iron,
           7439-96-5, Manganese, uses 7440-50-8, Copper, uses
                                                                 7773-01-5,
                        9002-92-0, Polyethylene glycol monododecyl ether
    Manganese chloride
                13444-72-9, Manganese sulfate [Mn2(SO4)3]
     13197-76-7
     14940-41-1, Iron phosphate [Fe3(PO4)2] 17599-81-4, Copper
                       60472-42-6, Sokalan CP 5
     sulfate (Cu2SO4)
    RL: TEM (Technical or engineered material use); USES (Uses)
        (bleaching detergent compns. contg. hydrogen peroxide
       generators and peroxo acid precursors)
    ANSWER 112 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1996:241771 CAPLUS
AN
    124:320205
DN
    Bleaching detergent compositions containing hydrogen peroxide-releasing
TΤ
    agents and peroxo acid precursors
    Ogura, Nobuyuki; Yamaguchi, Yukyoshi; Aoyanagi, Muneo; Tsucha, Shigemi;
IN
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Hanada, Yoshuki; Saito, Shinya

Jpn. Kokai Tokkyo Koho, 14 pp.

Kao Corp, Japan

PA

SO

CODEN: JKXXAF

DТ Patent LA Japanese FAN.CNT 1

APPLICATION NO. DATE PATENT NO. KIND DATE ----------JP 08027484 A2 19960130 JP 3330230 B2 20020930 JP 1994-168144 19940720 PΙ

19940720 PRAI JP 1994-168144

MARPAT 124:320205 OS

Title compns., effective to lipophilic stains from fabrics, etc., contain AB (A) 1-95% inorg. peroxides releasing H2O2 in aq. soln., (B) 0.1-30% peroxo acid precursors RCOL [R = (substituted or linkage group-contg.) linear or branched C7-22 alkyl, alkenyl, C1-18 alkyl, (alkyl-substituted) aryl; L = leaving group; RCO2Na corresponding to RCOL-derived org. peracids shows HLB (Davies method) .ltoreq.23; producing .gtoreq.1 mM RCO3COR from aq. soln. of 10 mM RCOL and 50 mM H2O2 after 10 min at 20.degree.], (C) 0.05-10% (based on B) QSO3M and 0.01-10% (based on B) QCO2M [Q =(substituted or linkage-contg.) C1-12 alkyl, alkenyl, (substituted or linkage-contg.) aryl; M = H, (in)org. cation], and (D) 0.1-50% anionic, nonionic, cationic, or amphoteric surfactants, in which, B and C are blended into the total compns. as their fine mixed powder prepd. by dissolving or dispersing in solvents of sp. dielec. const. .gtoreq.15 at 20.degree. or 25.degree.. Thus, a compn. of Na percarbonate 80, 50:0.5:0.5 powd. mixt. of p-C11H23CO2C6H4SO3Na (HLB 20.9, producing 3.2 mM diacyloyl peroxide), Na p-phenolsulfonate, and lauric acid 5, C12H25OSO3Na 5, Na ethane-1-hydroxy-1,1-diphosphonate 5, and Na2CO3 5% was added in a com. laundering detergent aq. soln. to show bleaching effect on stain of curry and prevention of discoloration on dyed color.

ITBleaching agents

Detergents

Discoloration prevention

Surfactants

(detergent bleaching agents contg. hydrogen peroxide -releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants)

ITPeroxides, uses

RL: TEM (Technical or engineered material use); USES (Uses) (detergent bleaching agents contg. hydrogen peroxide -releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants)

IT 50-78-2, Acetylsalicylic acid 56-40-6, Glycine, uses 56-41-7, Alanine, 65-85-0, Benzoic acid, uses 69-72-7, Salicylic acid, uses 75-75-2, Methanesulfonic acid 77-92-9, Citric acid, uses 79-14-1, Glycolic acid, uses 87-69-4, Tartaric acid, uses 88-99-3, Phthalic acid, uses 96-77-5, Phenoldisulfonic acid 98-67-9, p-Phenolsulfonic 99-96-7, p-Hydroxybenzoic acid, uses 100-21-0, Terephthalic acid, 104-15-4, p-Toluenesulfonic acid, uses 107-35-7, Taurine 107-36-8, Isethionic acid 110-15-6, Succinic acid, uses 110-16-7, Maleic acid, uses 110-17-8, Fumaric acid, uses 121-57-3, Sulfanilic 124-04-9, Adipic acid, uses 143-07-7, Lauric acid, uses 334-48-5, Capric acid 609-46-1, o-Phenolsulfonic acid 657-84-1, Sodium p-toluenesulfonate 825-90-1, Sodium p-phenolsulfonate 5138-18-1, Sulfosuccinic acid 6915-15-7, Malic acid

RL: MOA (Modifier or additive use); USES (Uses)

(detergent bleaching agents contg. hydrogen peroxide -releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants)

IT 3313-92-6, Sodium percarbonate

> RL: TEM (Technical or engineered material use); USES (Uses) (detergent bleaching agents contg. hydrogen peroxide -releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants)

60-00-4, EDTA, uses 7414-83-7, Sodium ethane-1-hydroxy-1,1-IT

diphosphonate RL: MOA (Modifier or additive use); USES (Uses) (metal-masking agents; for detergent bleaching agents contg. hydrogen peroxide releasers, peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants) 175596-80-2 176310-20-6 IT 89740-11-4 89740-13-6 172284-81-0 RL: TEM (Technical or engineered material use); USES (Uses) (peroxo acid precursors; detergent bleaching agents contg. hydrogen peroxide-releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants) 67-56-1, Methanol, uses 67-64-1, Acetone, uses 68-12-2, DMF, uses IT 75-05-8, Acetonitrile, uses 127-19-5, Dimethylacetamide 7732-18-5, Water, uses 39799-78-5 RL: NUU (Other use, unclassified); USES (Uses) (solvents; for detergent bleaching agents contg. hydrogen peroxide releasers, peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants) 151-21-3, Sodium dodecyl sulfate, uses 9002-92-0, IT Poly(oxyethylene) dodecyl ether 13197-76-7 RL: MOA (Modifier or additive use); USES (Uses) (surfactants; detergent bleaching agents contq. hydrogen peroxide-releasing compds., peroxo acid precursors, sulfonic acids, carboxylic acids, and surfactants) ANSWER 113 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 1996:591239 CAPLUS AN DN 125:251042 The production of heavy duty fabric washing detergents containing hydrogen ΤI peroxide AU Croud, V. B.; Tompsett, S. J. Warwick International Ltd, Clwyd, CH8 9HE, UK CS World Surfactants Congress, 4th, Barcelona, June 3-7, 1996 (1996), Volume SO 2, 98-108 Publisher: Asociacion Espanola de Productores de Sustancias para Aplicaciones Tensioactivas, Barcelona, Spain. CODEN: 63KCAH DT Conference LA English Incorporation of hydrogen peroxide into alk. liq. detergents is difficult AB due to the inherent instability of the peroxide under alk. conditions and the tendency of the peroxide to react with other formulation ingredients. This latter interaction tends to cause a decrease in the soln. pH. peroxide can be stabilized under alk. conditions by use of an appropriate choice of sequestrants and a pretreatment process. Sequestrants evaluated include: diethylenetriamine pentamethylenephosphonate (DTPMP), dipyridylamine (DPA), ethylene diamine tetramethylene phosphonate (EDTMP), amino-tris(methylenephosphonate) (ATMP), hydroxyethylidine diphosphonic acid (HEDP), diamino-cyclohexane tetramethylene phosphonate (DACHH), and dimethylglyoxime (DMG). The efficacy of the sequestrants was evaluated against Cu, Co, Fe, and Mn. It is possible to minimize the pH drift by the choice of the surfactants and other active materials, and also by the incorporation of suitable buffering materials. Combining these techniques, enabled development of alk. liq. detergents contg. hydrogen peroxide. Test formulations contained paraffin sulfonate, LAS, alc. ethoxylate (7EO), hydrogen peroxide, NaOH, DTPMP, DPA, DMG, and deionized water. A formulation for color-safe detergents contained LABS [linear alkylbenzene sulfonate], 7EO, NaOH, hydrogen peroxide, borax, sodium citrate, sodium sesquicarbonate, DTPMP, and DPA. Incorporation of hydrogen peroxide into alk. liq. detergents is difficult AB due to the inherent instability of the peroxide under alk. conditions and the tendency of the peroxide to react with other formulation ingredients.

This latter interaction tends to cause a decrease in the soln. pH. The peroxide can be stabilized under alk. conditions by use of an appropriate

choice of sequestrants and a pretreatment process. Sequestrants evaluated include: diethylenetriamine pentamethylenephosphonate (DTPMP), dipyridylamine (DPA), ethylene diamine tetramethylene phosphonate (EDTMP), amino-tris(methylenephosphonate) (ATMP), hydroxyethylidine diphosphonic acid (HEDP), diamino-cyclohexane tetramethylene phosphonate (DACHH), and dimethylglyoxime (DMG). The efficacy of the sequestrants was evaluated against Cu, Co, Fe, and Mn. It is possible to minimize the pH drift by the choice of the surfactants and other active materials, and also by the incorporation of suitable buffering materials. Combining these techniques, enabled development of alk. liq. detergents contg. hydrogen peroxide. Test formulations contained paraffin sulfonate, LAS, alc. ethoxylate (7EO), hydrogen peroxide, NaOH, DTPMP, DPA, DMG, and deionized water. A formulation for color-safe detergents contained LABS [linear alkylbenzene sulfonate], 7EO, NaOH, hydrogen peroxide, borax, sodium citrate, sodium sesquicarbonate, DTPMP, and DPA. hydrogen peroxide stabilization alk laundry detergent; sequestrant

ST hydrogen peroxide stabilization alk laundry detergent; sequestrant stabilization hydrogen peroxide buffering detergent; amine phosphonate sequestrant hydrogen peroxide detergent

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L3 ANSWER 114 OF 158 CAPLUS COPYRIGHT 2003 ACS
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- AN 1995:643678 CAPLUS
- DN 123:260506
- TI Liquid bleaching agent compositions
- IN Ogura, Nobuyuki; Aoyanagi, Muneo; Shimizu, Toshio
- PA Kao Corp, Japan
- SO Jpn. Kokai Tokkyo Koho, 14 pp.
  - CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN. CNT 1

•		PATENT NO.	KIND I	DATE	APPLICATION NO.	DATE	
	ΡI	JP 07082591	A2	19950328	JP 1993-228791	19930914	
		JP 3330200	B2	20020930			
	PRAI	JP 1993-228791		19930914			
			_				

- OS MARPAT 123:260506
- Bleaching compns. with storage stability contain (a) nonionic surfactants, (b) H2O2, (c) certain kind of bleaching activating agents which are carboxylic acid esters having a carboxylate-, sulfonate-, or ammonium-contg. alc. part, and (d) quaternary ammonium compds. or anionic compds. contg. carboxylate, sulfonate, or phosphonate group. Thus, a bleaching agent contained 20% monolauryl ether of polyethylene glycol (av.-no. of oxyethylene 10), 1% C11H23CO2C6H4SO3Na, 2% C12H25Me3N+Cl-, 0.1% ethane-1-hydroxy-1,1-diphosphonate, 5% H2O2, and balance H2O.
- Bleaching compns. with storage stability contain (a) nonionic surfactants, (b) H2O2, (c) certain kind of bleaching activating agents which are carboxylic acid esters having a carboxylate-, sulfonate-, or ammonium-contg. alc. part, and (d) quaternary ammonium compds. or anionic compds. contg. carboxylate, sulfonate, or phosphonate group.

  Thus, a bleaching agent contained 20% monolauryl ether of polyethylene glycol (av.-no. of oxyethylene 10), 1% C11H23CO2C6H4SO3Na, 2% C12H25Me3N+C1-, 0.1% ethane-1-hydroxy-1,1-diphosphonate, 5% H2O2, and balance H2O.
- L3 ANSWER 115 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1995:520581 CAPLUS
- DN 122:248024
- TI Hydrogen peroxide preparations for oxidative hair dyeing and bleaching
- IN Hoeffkes, Horst; Neuhaus, Winifried; Nelles, Karin
- PA Henkel K.-G.a.A., Germany
- SO Ger. Offen., 8 pp.

CODEN: GWXXBX

DT Patent LA German FAN CNT 1

L MIA . /	T NT	1					
	PAT	TENT NO.	KIND	DATE		APPLICATION NO.	DATE
ΡĪ	DE	4333370	A1	19950406		DE 1993-4333370	19930930
	WO	9508978	Al	19950406		WO 1994-EP3118	19940919
		W: PL, US					,
		RW: AT, BE,	CH, DE	, DK, ES,	FR,	GB, GR, IE, IT, LU	, MC, NL, PT, SE
	ΕP	721321	A1	19960717		EP 1994-927624	19940919
	ΕP		B1				
		R: AT, BE,	CH, DE	, DK, ES,	FR,	GB, GR, IT, LI, NL	, PT, SE
	AT	173151	E			AT 1994-927624	19940919
	ES	2124914	Т3	19990216		ES 1994-927624	19940919
	$_{ m PL}$	176726	B1	19990730		PL 1994-313770	19940919
	US	5651793	Α	19970729		US 1996-619679	19960328
PRAI	DE	1993-4333370		19930930			
	WO	1994-EP3118		19940919			

- AQ. H202 prepns. for oxidative hair dyeing and bleaching contain an anionic surfactant foaming agent, a carboxylated polymer thickening agent, and 0.001-0.05 wt.% foaming regulator comprising polysiloxane with a small amt. of finely divided, hydrophobic silicic acid. Thus, a compn. contg. 50% aq. H202 12.0, 28% aq. ethoxylated lauryl/myristyl ether Na sulfate 2.0, 25% aq. Et acrylate/methacrylic acid copolymer 15.0, dimethylpolysiloxane contg. 10-20 wt.% hydrophobic silicic acid 0.0067, 1-hydroxyethane-1,1-diphosphonic acid 1.0, ethoxylated hydrogenated castor oil 0.05, and water to 100 wt.% was readily miscible with an oxidative hair dye cream with little foaming on either mixing or rinsing. This compn. was stored at 45.degree. for 6 mo without loss of foam-regulating properties.
- AB Aq. H202 prepns. for oxidative hair dyeing and bleaching contain an anionic surfactant foaming agent, a carboxylated polymer thickening agent, and 0.001-0.05 wt.% foaming regulator comprising polysiloxane with a small amt. of finely divided, hydrophobic silicic acid. Thus, a compn. contg. 50% aq. H202 12.0, 28% aq. ethoxylated lauryl/myristyl ether Na sulfate 2.0, 25% aq. Et acrylate/methacrylic acid copolymer 15.0, dimethylpolysiloxane contg. 10-20 wt.% hydrophobic silicic acid 0.0067, 1-hydroxyethane-1,1-diphosphonic acid 1.0, ethoxylated hydrogenated castor oil 0.05, and water to 100 wt.% was readily miscible with an oxidative hair dye cream with little foaming on either mixing or rinsing. This compn. was stored at 45.degree. for 6 mo without loss of foam-regulating properties.
- L3 ANSWER 116 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1995:362384 CAPLUS
- DN 122:141515
- TI Treatment of photographic effluents by ultraviolet radiation and hydrogen peroxide for removal of organic compounds.
- IN Gehin, Guy Michel; Caillault, Olivier Andre Georges
- PA Kodak-Pathe, Fr.; Eastman Kodak Co.
- SO Eur. Pat. Appl., 12 pp. CODEN: EPXXDW
- DT Patent
- LA English
- FAN.CNT 1

		_								
	PA?	FENT 1	NO.		KIND	DATE	AP	PLICATION	NO.	DATE
ΡI	ΕP	6223	39		A1	19941102	EP	1994-4203	125	19940419
	EP	6223	39		B1	19980701				
		R:	CH,	DE,	FR, GB	, IT, LI				
	FR	2704	543		A1	19941104	FR	1993-5412	2	19930430
	FR	2704	543		B1	19950713				
	US	5439	599		Α	19950808	US	1994-2312	216	19940422

JP 1994-89777 19940427 JP 07047374 A2 19950221 PRAI FR 1993-5412 19930430 The present invention relates to a process for eliminating the org. compds. from aq. effluents having a COD >5 g/L. The process consists of treating the effluents with a sufficient quantity of light energy originating from a polychromatic UV source in the presence of H2O2. quality of oxygen provided by the hydrogen peroxide expressed in grams per L is between 0.5 and 3 times the COD of the effluent to be treated and the pH is equal to or <10.5. This process applies to photog. effluents such as those from color development baths for silver halide photog. products. 99-11-6, Citrazinic 64-19-7, Acetic acid, processes 92-43-3, Phenidone 100-51-6, Benzenemethanol, processes 106-50-3, p-Phenylene 111-30-8, diamine, processes 106-50-3D, p-Phenylene diamine, derivs. Glutaraldehyde 111-46-6, processes 123-31-9, Hydroquinone, processes 123-31-9D, Hydroquinone, derivs. 1310-58-3, Potassium hydroxide, processes 2235-43-0 7647-15-6, Sodium bromide, processes 7664-38-2, Phosphoric acid, processes 7681-11-0, Potassium iodide, processes 7757-83-7, Sodium sulfite 10039-54-0, Hydroxylamine 25646-71-3 27516-53-6, Pentenoic acid RL: REM (Removal or disposal); PROC (Process) (treatment of photog. effluents by UV radiation and hydrogen peroxide for removal of org. compds.) ANSWER 117 OF 158 CAPLUS COPYRIGHT 2003 ACS DUPLICATE 5 L3 AN 1993:168345 CAPLUS DN 118:168345 Agricultural and horticultural oxygen-supplying compositions containing TI hydrogen peroxide, inorganic salt fertilizers, and inorganic acids. IN Takahashi, Naokazu PA Nissan Chemical Industries, Ltd., Japan SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF DT Patent Japanese LA FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----JP 05004902 A2 19930114 JP 1991-158303 19910628 PΙ JP 06096483 B4 19941130 PRAI JP 1991-158303 19910628 Stable O-supplying compns. for agriculture and horticulture contain H2O2, inorg. salt fertilizers, and inorg. acids. A compn. (H2O2 content 4.88%) contg. 35% aq. H2O2 140, (NH4)2SO4 25, 85% H3PO4 2, and H2O 833 g was kept in white polyethylene bottles at room temp. for 4 mo to show 4.73% H2O2, vs. 4.19%, for the control formulated without H3PO4. IT Phosphates, uses Sulfates, uses RL: USES (Uses) (oxygen-supplying compns. contg. hydrogen peroxide and inorg. acids and, stable, for soils) 7722-76-1, Ammonium primary phosphate 7783-20-2, Ammonium TI sulfate, uses RL: USES (Uses) (oxygen-supplying compns. contg. hydrogen peroxide and inorg. acids and, stable, for soils) IT 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses RL: USES (Uses) (oxygen-supplying compns. contg. hydrogen peroxide and inorg. salt fertilizers and, stable, for soils)

L3 ANSWER 118 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1995:615086 CAPLUS

DN 123:11774

TI Finishing of coarse cellulose fabrics

IN Kovalchuk, Lyudmila S.; Aftaeva, Nataliya S.; Doronina, Nataliya S.; Akulova, Lyudmila K.

PA Tsentralnyj Nauchno-Issledovatelskij Institut Khlopchatobumazhnoj Promyshlennosti, USSR

SO U.S.S.R.

From: Izobreteniya 1993, (21), 66-7.

CODEN: URXXAF

DT Patent

LA Russian

FAN. CNT 1

rau.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	SU 1819926	A1	19930607	SU 1990-4885403	19901025	
ד ג מת	CTT 1000 400E402		10001025			

PRAI SU 1990-4885403 19901025 The consumption of water, amt. of wastewater, and amt. of silicate ppts. are decreased in upgrading gray cellulose textile material by alk. cooking with steaming, scouring in an aq. H2SO4 soln., alk.-peroxide brightening in the presence of a wetting agent and sodium silicate with specific d. 1.44 with steaming and counter-current intermittent washing between stages, and final washing with hot and cold water. The scouring soln. comprises H2SO4 2-3; chloramine B or chloramine KhB 1.0-1.5; Sulfoxide 31 wetting agent (mixt. of hydroxyethylated amides of C10-C14 synthetic fatty acids with the degree of hydroxyethylation 5-6 and C11-12 alkyl benzene sulfonates) 0.3-0.5; hydroxyethylidene diphosphonic acid (I) complexing agent 0.1-0.2; and  ${\tt H2O2}$  0.3-0.5 g/L and is used at 80-958.degree.. Alk.-peroxide brightening is carried out in the presence of Mg chloride or sulfate stabilizer, I, and nonionic wetting agent syntanol BV. The impregnating brightening soln. comprises H2O2 3-5; Na silicate with 1.44 specific d. 5-6; Mg chloride or sulfate 0.5-0.7; I 0.2-0.4; Syntanol BV 0.5-1.0; NaOH up to total alky. 1.2-1.4 g/L; and by intermittent washing after each cooking and

The consumption of water, amt. of wastewater, and amt. of silicate ppts. AΒ are decreased in upgrading gray cellulose textile material by alk. cooking with steaming, scouring in an aq. H2SO4 soln., alk.-peroxide brightening in the presence of a wetting agent and sodium silicate with specific d. 1.44 with steaming and counter-current intermittent washing between stages, and final washing with hot and cold water. The scouring soln. comprises H2SO4 2-3; chloramine B or chloramine KhB 1.0-1.5; Sulfoxide 31 wetting agent (mixt. of hydroxyethylated amides of C10-C14 synthetic fatty acids with the degree of hydroxyethylation 5-6 and C11-12 alkyl benzene sulfonates) 0.3-0.5; hydroxyethylidene diphosphonic acid (I) complexing agent 0.1-0.2; and **H2O2** 0.3-0.5 g/L and is used at 80-958.degree.. Alk.-peroxide brightening is carried out in the presence of Mg chloride or sulfate stabilizer, I, and nonionic wetting agent syntanol BV. The impregnating brightening soln. comprises H2O2 3-5; Na silicate with 1.44 specific d. 5-6; Mg chloride or sulfate 0.5-0.7; I 0.2-0.4; Syntanol BV 0.5-1.0; NaOH up to total alky. 1.2-1.4 g/L; and by intermittent washing after each cooking and souring with hot water.

- L3 ANSWER 119 OF 158 JAPIO COPYRIGHT 2003 JPO
- AN 1993-148658 JAPIO
- TI ELECTROLESS TIN PLATING METHOD
- IN TAKATSU AKIO; NIHEI TOMOMICHI
- PA SUMITOMO METAL MINING CO LTD

souring with hot water.

- PI JP 05148658 A 19930615 Heisei
- AI JP 1991-334454 (JP03334454 Heisei) 19911122
- PRAI JP 1991-334454 19911122
- SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1993
- AB PURPOSE: To enhance reliability in mounting a multi-pin TAB tape, etc., by treating the surface of a material to be plated with a liq. mixture of the acid, peroxide and org. high molecular compd. and then electroless-plating

the material.

CONSTITUTION: Copper as a material to be plated is electroless-plated with tin. In this case, the surface of the material is treated with a liq. mixture of the acid, peroxide and org. high molecular compd., and then the material is electroless-plated. The plated material is further annealed. A soln. contq. at least one kind among sulfuric acid, hydrochloric acid, nitric acid and phosphoric acid is used as the acid. Ammonium persulfate or hydrogen peroxide is used as the peroxide. A compd. obtained by linking a straight-chain hydrocarbon or cyclic-carbon compd. to the sulfate group or phosphate group or the salt of the compd. are used as the org. compd. Consequently, any trouble is hardly caused in the electric-component circuit. COPYRIGHT: (C) 1993, JPO&Japio

- . plated material is further annealed. A soln. contg. at least one AB kind among sulfuric acid, hydrochloric acid, nitric acid and phosphoric acid is used as the acid. Ammonium persulfate or hydrogen peroxide is used as the peroxide. A compd. obtained by linking a straight-chain hydrocarbon or cyclic-carbon compd. to the sulfate group or phosphate group or the salt of the compd. are used as the org. compd. Consequently, any trouble is. . .
- ANSWER 120 OF 158 CAPLUS COPYRIGHT 2003 ACS L3
- 1992:594626 CAPLUS AN
- 117:194626 DN
- Continuous process for the manufacture of sodium percarbonate from sodium TT carbonate and hydrogen peroxide
- Sasaki, Hiromi; Ueda, Hiroshi; Muneno, Yasushi; Kusunoki, Hirokazu; IN Yamamoto, Sunao
- PΑ Central Glass Co., Ltd., Japan
- SO Eur. Pat. Appl., 10 pp. CODEN: EPXXDW
- DTPatent
- English LA
- FAN.CNT 1

1111.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	EP 496430	A1	19920729	EP 1992-101194	19920124
	R: DE, FR	GB, SE			
	US 5294427	Α	19940315	US 1993-15052	19930208
PRAI	JP 1991-7412		19910125		
	JP 1991-238368		19910918		
	US 1992-826531		19920127		
	US 1992-826531		19920127		

- A Na2CO3 and a H2O2 soln. are continuously fed to a 1st vessel to form a seed crystal-contg. Na percarbonate slurry, the slurry is continuously fed into a 2nd vessel along with .gtoreq.1 of the Na2CO3 and H2O2 to form a 2nd slurry contq. final Na percarbonate crystals grown from the seed crystals, the 2nd slurry is continuously discharged, the final Na percarbonate crystals are sepd. from the mother liquor, and the Na percarbonate crystals are granulated to a particle size .ltoreq.100 .mu.m.
- 1312-76-1, Potassium silicate 1344-09-8, Sodium  $\mathbf{IT}$ 60-00-4, EDTA, uses 7647-14-5, 7487-88-9, Magnesium sulfate, uses 7664-38-2, Phosphoric acid, Sodium chloride, uses

7757-82-6, Sodium sulfate, uses

RL: USES (Uses)

(solns. contg., in sodium percarbonate manuf. from sodium carbonate and hydrogen peroxide, continuous process for)

- ANSWER 121 OF 158 JAPIO COPYRIGHT 2003 JPO L3
- **JAPIO** AN1992-114734
- DEODORANT ΤI
- YOSHIDA NORIKAZU; KIMURA YOSHIAKI; SEO SUMIMASA; IGUCHI TSUTOMU IN .
- PΑ NIPPON KAYAKU CO LTD
- JP 04114734 A 19920415 Heisei ΡI
- JP 1990-233416 (JP02233416 Heisei) 19900905 AΤ

```
PRAI JP 1990-233416 19900905
     PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1992
     PURPOSE: To decompose a malodorous component, rapidly and to use a
     deodorant for a long period of time by adding manganese or a manganese
     compound and peroxide.
     CONSTITUTION: A deodorant containing at least one component selected from
     manganese and a manganese compound, peroxide and phosphoric
     acid, phosphorous acid, hypophosphorous
     acid or a salt thereof being an arbitrary component is obtained.
     As the manganese compound, oxide, carbonate, sulfate, oxalate
     and permanganate are pref. As peroxide, hydrogen
    peroxide, sodium peroxide, potassium peroxide, calcium peroxide,
    peracetic acid and benzoyl peroxide are pref. This deodorant rapidly
     decomposes a malodorous component and can be used for a long period of
     COPYRIGHT: (C) 1992, JPO&Japio
AΒ
     . . and peroxide.
    CONSTITUTION: A deodorant containing at least one component selected from
     manganese and a manganese compound, peroxide and phosphoric
     acid, phosphorous acid, hypophosphorous
     acid or a salt thereof being an arbitrary component is obtained.
     As the manganese compound, oxide, carbonate, sulfate, oxalate
     and permanganate are pref. As peroxide, hydrogen
    peroxide, sodium peroxide, potassium peroxide, calcium peroxide,
    peracetic acid and benzoyl peroxide are pref. This deodorant rapidly
     decomposes a malodorous component.
L3
    ANSWER 122 OF 158 CAPLUS COPYRIGHT 2003 ACS
AN
    1991:689786 CAPLUS
DN
    115:289786
    Electrochemical synthesis of hydrogen peroxide
ΤI
    Berzins, Talvildis; Gosser, Lawrence Wayne
PA
    du Pont de Nemours, E. I., and Co., USA
SO
    PCT Int. Appl., 20 pp.
    CODEN: PIXXD2
DT
    Patent
    English
FAN.CNT 1
    PATENT NO. KIND DATE
                                   APPLICATION NO. DATE
     ______
                                         ______
                   A1 19911003
    WO 9114802
                                        WO 1991-US645 19910205
        W: AU, BR, CA, FI, JP, KR, NO
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
    US 5112702 A 19920512
AU 9172417 A1 19911021
                                    US 1990-636868 19901231
    AU 9172417 Al 19911106
CN 1055963 A 19911106
1990-495674 19900319
                                         AU 1991-72417 19910205
                                          CN 1991-102474 19910319
PRAI US 1990-495674
    US 1990-636868
                          19901231
    WO 1991-US645
                          19910205
    The synthesis of H2O2 occurs by the electrochem. redn. of O in the
AΒ
    presence of acid and halide, preferably bromide, conducted in an
    electrolytic cell or in the cathode compartment of a fuel cell, where H2O2
    is produced in com. useful concns.
ΙT
    Sulfonic acids, uses and miscellaneous
    RL: USES (Uses)
        (in electrochem. prodn. of hydrogen peroxide)
IT
    7601-90-3, Perchloric acid, uses and miscellaneous
                                                         7647-01-0,
    Hydrochloric acid, uses and miscellaneous 7664-38-2, Phosphoric
                                  7664-93-9, Sulfuric acid, uses and
    acid, uses and miscellaneous
    miscellaneous 7697-37-2, Nitric acid, uses and miscellaneous
    16887-00-6, Chloride, uses and miscellaneous 24959-67-9, Bromide, uses
    and miscellaneous
    RL: USES (Uses)
        (in electrochem. prodn. of hydrogen peroxide)
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L3
    ANSWER 123 OF 158 CAPLUS COPYRIGHT 2003 ACS
AN
    1991:650354 CAPLUS
    115:250354
DN
    Citric and tartaric acid-containing solutions as hydrogen peroxide
TΤ
    Kelly, Felix; McKay, Colin; Steed, Brian Harold
IN
PA
    Aquaclear International Ltd., UK
SO
    PCT Int. Appl., 34 pp.
    CODEN: PIXXD2
DT
    Patent
    English
LΑ
FAN.CNT 1
                   KIND DATE
                                    APPLICATION NO. DATE
    PATENT NO.
     -----
                                        ______
                   A2
PΙ
    WO 9108981
                         19910627
                                       WO 1990-GB1968 19901217
    WO 9108981
                    A3 19910905
        W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR,
            LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US
        RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, GR, IT,
            LU, ML, MR, NL, SE, SN, TD, TG
                                        AU 1991-68997
                                                         19901217
    AU 9168997
                     A1 19910718
                                        ZA 1991-1882
                                                         19910314
    ZA 9101882
                         19911224
PRAI ZA 1989-9597
                          19891215
    WO 1990-GB1968
                          19901217
    A H2O2-stabilizing soln. comprises 1-7% citric acid, 7-12% tartaric acid
AB
    and a chelating and/or buffering agent. Ag+ are optionally present. The
    stabilized H2O2 is useful as a disinfectant for swimming pools and
    breweries. A stabilizer conc. comprises tartaric acid 80, citric acid 21,
    and 85% H3PO4 50 g in 1 L aq. soln.
                                               87-69-4, uses and
IT
    77-92-9, Citric acid, uses and miscellaneous
    miscellaneous 7664-38-2, Phosphoric acid, uses and
    miscellaneous 7761-88-8, Silver nitrate, uses and miscellaneous
    7783-90-6, Silver chloride, uses and miscellaneous 7783-99-5, Silver
             10294-26-5, Silver sulfate 14701-21-4, Silver ion,
    uses and miscellaneous
    RL: USES (Uses)
       (stabilizers soln. contg., for hydrogen peroxide)
L3
    ANSWER 124 OF 158 CAPLUS COPYRIGHT 2003 ACS
AN
    1992:91132 CAPLUS
DN
    116:91132
    Low-foam oxidative hair dyes
TI
    Hoeffkes, Horst; Nelles, Karin; Neuhaus, Winifried
IN
PA
    Henkel K.-G.a.A., Germany
SO
    Ger. Offen., 5 pp.
    CODEN: GWXXBX
DT
    Patent
LA
    German
FAN.CNT 1
                                        APPLICATION NO. DATE
    PATENT NO.
                    KIND DATE
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                                        _____
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                                                        _____
                                        DE 1990-4018259 19900607
PΙ
    DE 4018259
                   A1 19911212
                                        WO 1991-EP999
    WO 9118584
                    A1 19911212
                                                        19910529
        W: FI, HU, JP, KR, PL, US
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
                         19930317 EP 1991-910298 19910529
    EP 531391
                     A1
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE
                                   JP 1991-509536 19910529
    JP 05507476
                   T2 19931028
PRAI DE 1990-4018259
                          19900607
    WO 1991-EP999
                          19910529
os
    MARPAT 116:91132
    H2O2 compns. for oxidative hair dyeing comprise an anionic surfactant, a
AΒ
    thickening CO2H-contg. polymer, and a nonionic surfactant RO(C2H4O)xR1 [R
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= C10-22 alkyl or alkenyl, C6-15 alkylphenyl; R1 = (C3H6O)yH, CnH2n+1 (C3H6O)yCnH2n+1; x = 1-10; y = 3-5; n = 1-4. The compns. are free of the abundant foaming shown by conventional anionic surfactant-contg. prepns. A compn. contained 50% H2O2 12, 28% aq. Na lauryl/myristyl polyglycol ether sulfate 2, 25% aq. Latekoll D 16, coco fatty alkyl polyoxyethyl Bu ether 0.5, 1-hydroxyethane 1,1-diphosphonic acid 0.3, and water to 100% by wt. The H2O2 compn. was used in conjunction with known dye creams. H2O2 compns. for oxidative hair dyeing comprise an anionic surfactant, a thickening CO2H-contg. polymer, and a nonionic surfactant RO(C2H4O)xR1 [R = C10-22 alkyl or alkenyl, C6-15 alkylphenyl; R1 = (C3H6O)yH, CnH2n+1 (C3H6O)yCnH2n+1; x = 1-10; y = 3-5; n = 1-4]. The compns. are free of the abundant foaming shown by conventional anionic surfactant-contg. prepns. A compn. contained 50% H2O2 12, 28% aq. Na lauryl/myristyl polyglycol ether sulfate 2, 25% aq. Latekoll D 16, coco fatty alkyl polyoxyethyl Bu ether 0.5, 1-hydroxyethane 1,1-diphosphonic acid 0.3, and water to 100% by wt. The H2O2 compn. was used in conjunction with known dye creams. ANSWER 125 OF 158 CAPLUS COPYRIGHT 2003 ACS 1991:188463 CAPLUS 114:188463 Process for the regeneration of sulfuric acid from the purification of yellow phosphorus Pieper, Werner; Biermann, Walter Hoechst A.-G., Germany Ger. Offen., 3 pp. CODEN: GWXXBX Patent German FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO. ----\_\_\_\_\_ -**----**DE 1989-3926112 19890808 DE 3926112 A1 19910214 US 1990-557928 19900725 19920616 Α US 5122359 19890808 PRAI DE 1989-3926112 The process comprises mixing the contaminated H2SO4 with H2O2, and reacting the mixt. in the presence of a catalyst at 110.degree.-210.degree. in concd. H2SO4. This process is esp. suitable for regenerating the H2SO4 from the electrothermal process for the manuf. of yellow P. The resulting H2SO4 may afterwards are decolorized with H2O2 at 100-160.degree.. sulfuric acid purifn yellow phosphorus; hydrogen peroxide sulfuric acid

ST purifn; ferrous sulfate catalyst hydrogen peroxide; manganese sulfate catalyst hydrogen peroxide; nickel sulfate catalyst hydrogen peroxide; catalyst hydrogen peroxide sulfuric acid

Color centers IT

AB

L3

AN DN

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SO

DТ

LΑ

ΡI

(removal of, in purified sulfuric acid from yellow phosphorus manuf., with hydrogen peroxide)

7785-87-7, Manganese 7720-78-7, Ferrous sulfate IT sulfate (MnSO4) 7786-81-4, Nickel sulfate RL: CAT (Catalyst use); USES (Uses)

(catalyst, in purifn. of contaminated sulfuric acid from yellow phosphorus manuf., with hydrogen peroxide)

- ANSWER 126 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 1992:70523 CAPLUS AN
- DN 116:70523
- Effect of wave form of power source on electrolytic coloring of titanium ΤI
- Onaka, Takashi; Ito, Seisiro; Ishida, Shinichi; Shiokawa, Jiro ΑU
- Tech. Dev. Dep., Nippon Alum. Mfg. Co., Ltd., Osaka, 532, Japan CS
- Shikizai Kyokaishi (1991), 64(11), 690-5 SO

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CODEN: SKYOAO; ISSN: 0010-180X
DT
     Journal
LA
     Japanese
     Effect of the wave form of the power source on anodic oxidn. (electrolytic
AB
     coloring) of titanium using a bath contg. H3PO4, H2SO4, and H2O2 with or
     without Al2(SO4)3 or CoSO4 was studied. As the wave forms of the power
     source, a complete flat wave and incomplete rectified waves, such as
     single-phase half-wave, two-phase half-wave, three-phase half-wave and
     six-phase half-wave, were used. As a result, colored thick films obtained
     from using the incomplete rectified wave forms in a short time were more
     uniform and clearer than these obtained from using the complete flat wave
     form. This reason is as follows: the electrolysis using the incomplete
     rectified wave forms is equal to that with high c.d. over 10 A/dm2,
     because the voltage and the current of the incomplete rectified wave forms
     have high peak value. Also the spark discharges of the incomplete
     rectified wave forms occur smoothly because their currents are
     intermittent. The thickness, the color and the surface of the film
     obtained from using the incomplete rectified wave forms are decided by the
     peak voltage.
     Oxidation, electrochemical
IT
        (of titanium in bath contg. sulfuric and phosphoric
        acid and hydrogen peroxide with and without
        aluminum sulfate and cobalt sulfate, voltage and
        current wave in relation to)
TT
     Anodization
        (of titanium with coloring in bath contg. sulfuric acid and
        phosphoric acid and hydrogen
        peroxide with and without aluminum sulfate and cobalt
        sulfate)
IT
     7664-93-9, Sulfuric acid, uses
     RL: USES (Uses)
        (anodization of titanium with coloring in bath contg.
       phosphoric acid and hydrogen
       peroxide and, with and without aluminum sulfate and
        cobalt sulfate)
     7664-38-2, Phosphoric acid, uses
IT
     RL: USES (Uses)
        (anodization of titanium with coloring in bath contg. sulfuric acid and
        hydrogen peroxide and, with and without aluminum
        sulfate and cobalt sulfate)
     10043-01-3, Aluminum sulfate
                                    10124-43-3, Cobalt
TT
     sulfate (CoSO4)
     RL: USES (Uses)
        (anodization of titanium with coloring in bath contg. sulfuric acid and
        phosphoric acid and hydrogen
       peroxide with or without)
     7722-84-1, Hydrogen peroxide (H2O2), uses
IT
     RL: USES (Uses)
        (anodization of titanium with coloring in bath contg. sulfuric acid and
        phosphoric acid and, with and without aluminum
        sulfate and cobalt sulfate)
    ANSWER 127 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1991:188023 CAPLUS
AN
DN
     114:188023
     Thickened acidic liquid composition with amino group-containing ...
TI
     fluorescent whitener for use as a bleaching agent vehicle
     Peterson, David
IN
     Clorox Co., USA
PA
     Eur. Pat. Appl., 16 pp.
so
     CODEN: EPXXDW
DТ
     Patent
    English
LA
FAN.CNT 1
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PATENT NO.
                   KIND DATE
                                        APPLICATION NO. DATE
     _____
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    EP 403062 A2
                          19901219
                                        EP 1990-304660 19900430
PΙ
                    A3
                          19910109
    EP 403062
                    B1
                         19950118
    EP 403062
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
    US 5106523 A 19920421
                                        US 1989-367375
                                                         19890616
                     Т3
                          19950501
                                        ES 1990-304660
                                                         19900430
    ES 2069006
    CA 2016430
                     AA
                          19901216
                                        CA 1990-2016430 19900511
                    С
                          19941108
    CA 2016430
                    A2
    JP 03026796
                          19910205
                                        JP 1990-137331 19900529
PRAI US 1989-367375
                          19890616
    The title compn., having good storagability and useful as a laundering
    aid, is an aq. soln. having pH <7 and contg. a thickening system
    comprising an amide, an alkyl sulfate and/or alkylarene sulfonate
    surfactant, and a normally insol., but solubilized, fluorescent whitener
    contg. amino groups. A soln. having pH 3.8 and contg.
    poly(vinylpyrrolidone) (I; K 30) 0.10, Phorwite RKH 0.32, ammonium lauryl
    sulfate 1.50, H202 3.50, Dequest 2000 0.12%,
    and the balance being water, had viscosity 325 cP after 2 wk of storage at
     40.degree., vs. space sepn. without I.
    The title compn., having good storagability and useful as a laundering
AB ·
    aid, is an aq. soln. having pH <7 and contg. a thickening system
    comprising an amide, an alkyl sulfate and/or alkylarene sulfonate
    surfactant, and a normally insol., but solubilized, fluorescent whitener
    contg. amino groups. A soln. having pH 3.8 and contg.
    poly(vinylpyrrolidone) (I; K 30) 0.10, Phorwite RKH 0.32, ammonium lauryl
    sulfate 1.50, H202 3.50, Dequest 2000 0.12%,
    and the balance being water, had viscosity 325 cP after 2 wk of storage at
     40.degree., vs. space sepn. without I.
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- ANSWER 128 OF 158 CAPLUS COPYRIGHT 2003 ACS L3
- 1990:593983 CAPLUS AN
- DN113:193983
- Aqueous alkaline beaching compositions containing hydrogen peroxide, TI thickeners, and stabilizers
- IN Clarke, David Ellis
- Unilever PLC, UK; Unilever N. V. PA
- SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

- DTPatent
- LA English

FAN.CNT 2

FAN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 376704 EP 376704	A1 B1	19900704 19950215	EP 1989-313623	19891227
			, GB, IT, LI,	NI. SE	
	ZA 8909842	A A	19910828	·	19891221
	ZA 8909843	A	19910828		19891221
	CA 2006530	AA	19900628	CA 1989-2006530	19891222
	CA 2006530	С	19961015		
	CA 2006531	AA	19900628	CA 1989-2006531	19891222
	CA 2006531	С	19960903		
	AU 8947271	A1	19900705	AU 1989-47271	19891222
	AU 623961	B2	19920528		
	AU 8947272	A1	19900705	AU 1989-47272	19891222
	AU 624209	B2	19920604		
	NO 8905260	Α	19900629	NO 1989-5260	19891227
	NO 173885	В	19931108		
	NO 173885	C	19940216		
	NO 8905261	A	19900629	NO 1989-5261	19891227
	NO 172354	В	19930329		
	NO 172354	C	19930707		

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19891227
                    Α
                          19920509
                                         IN 1989-BO355
     IN 170708
                   A 19920725
T3 19950401
T3 19950401
A2 19900910
B2 19961211
A2 19900910
B4 19950419
                                        IN 1989-BO354
                                                         19891227
    IN 171127
                          19920725
    ES 2067558
                                        ES 1989-313623 19891227
                                        ES 1989-313625 19891227
    ES 2067559
    JP 02227498
                                         JP 1989-345128 19891228
    JP 2562064
    JP 02227499
                                         JP 1989-345129 19891228
    JP 07035520
    BR 8906843
                    A 19900918
                                        BR 1989-6843
                                                         19891228
                   A 19900925
                                         BR 1989-6844
                                                          19891228
    BR 8906844
PRAI GB 1988-30296
                          19881228
    MARPAT 113:193983
OS
    The title compns. are thickened by an electrolyte-surfactant combination
AB
     and are stabilized against decompn. of H2O2 by a
    phosphonate or colloidal hydrous stannic oxide. The surfactant is
     an alkyl ether sulfate or a combination of a nonionic or amphoteric
     surfactant and a C8-20 alkane sulfonate or C8-20 alkyl sulfate. A compn.
     contg. H202 5, tallow alkyl dimethylamine oxide 1.0, Na alkane
     sulfonate 0.5, perfume 1.0, borax 1.6, and Na2SnO3.3H2O 0.1%, the
     balance being NaOH ( to give pH 9.0) and water, retained 96% of the H2O2
    during 100 days in a plastic bottle at 37.degree..
    The title compns. are thickened by an electrolyte-surfactant combination
AB
     and are stabilized against decompn. of H2O2 by a
    phosphonate or colloidal hydrous stannic oxide. The surfactant is
     an alkyl ether sulfate or a combination of a nonionic or amphoteric
     surfactant and a C8-20 alkane sulfonate or C8-20 alkyl sulfate. A compn.
     contg. H202 5, tallow alkyl dimethylamine oxide 1.0, Na alkane
     sulfonate 0.5, perfume 1.0, borax 1.6, and Na2SnO3.3H2O 0.1%, the
    balance being NaOH ( to give pH 9.0) and water, retained 96% of the H2O2
     during 100 days in a plastic bottle at 37.degree..
IT
    7488-55-3, Stannous sulfate 7646-78-8, Stannic chloride, uses
     and miscellaneous 7772-99-8, Stannous chloride, uses and miscellaneous
     12058-66-1, Sodium stannate 13598-36-2D, Phosphonic
     acid, amine derivs. 18282-10-5, Stannic oxide
     RL: USES (Uses)
        (stabilizers, for thickened hydrogen peroxide
       bleach solns.)
                                      9004-82-4 54116-08-4, Polyethylene
     151-21-3, uses and miscellaneous
IT
     glycol monotridecyl ether sulfate sodium salt
     RL: USES (Uses)
        (thickening by electrolyte and, of hydrogen peroxide
       bleach solns.)
    ANSWER 129 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
    1990:182424 CAPLUS
AN
DN
    112:182424
TI
    Stabilizing agents for hydrogen peroxide
    McMillen, Mark W.
IN
    Henkel Corp., USA
PA
    Eur. Pat. Appl., 8 pp.
SO
     CODEN: EPXXDW
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                                  APPLICATION NO. DATE
                   KIND DATE
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                                         ______
    EP 351772 A2 19900124
EP 351772 A3 19900704
                                        EP 1989-113144 19890718
        R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, SE
     AU 8938229 A1 19900125 AU 1989-38229 19890719
                          19900313
                                         BR 1989-3577
                                                         19890719
    BR 8903577
                    Α
    JP 02074506
                    A2 19900314
19880719
                                         JP 1989-187240 19890719
PRAI US 1988-221063
AB A stabilized H2O2 compn. comprises aq. H2O2 and a stabilizing agent
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selected from the group consisting of nonionic, anionic, cationic, and amphoteric surfactants, phenylacetic acid and its salts, salicylic acid and its salts, diethylenetriaminepentaacetic acid and its salts, sulfosalicylic acid and its salts, polymeric Ph sulfonates and their salts, and methyl 3,4,5-trihydroxybenzoate. The surfactant/H2O2 ratios are 1/10,000 to 1/1. hydrogen peroxide stabilization surfactant; sulfonate stabilization hydrogen peroxide; phenylacetic acid stabilization hydrogen peroxide; salicylic acid stabilization hydrogen peroxide; methyl trihydroxybenzoate stabilization hydrogen peroxide; sulfosalicylic acid stabilization hydrogen peroxide; diethylenetriaminepentaacetic acid stabilization hydrogen peroxide Sulfonates RL: USES (Uses) (alkylarene, stabilizers, for hydrogen peroxide) 67-43-6, Diethylene triamine pentaacetic acid 69-72-7, Salicylic acid, 97-05-2, Sulfosalicylic acid uses and miscellaneous 97-78-9, Hamposyl 104-15-4, P-Toluene 99-24-1, Methyl-3,4,5-trihydroxy benzoate sulfonic acid, uses and miscellaneous 126-92-1, Sodium 151-21-3, Sodium dodecyl sulfate 2-ethylhexyl **sulfate** 1300-72-7, Sodium xylene , uses and miscellaneous 156-38-7 1191-50-0 5324-84-5, Sodium 1-octane sulfonate sulfonate 9010-41-7, Triton X 200 9016-45-9, Triton 9002-93-1, Triton X-102 27176-87-0, Dodecylbenzene sulfonic acid 28519-02-0, 39464-70-5 Sodium dodecyl diphenyl oxide disulfonate 30260-72-1 98227-97-5, 52019-36-0, Monafax 1214 80803-49-2, Monateric 1000 109210-46-0, Hamplex DPS Mirataine CBS 106392-12-5, Pluronic R 127 126775-93-7, Avanel BSA 74 126775-98-2, Chemfac PC 099 126776-59-8, Mirawet ASC 126776-60-1, Mona AT 1200 126776-61-2, Monafax 057 126776-62-3, Monafax 060 RL: USES (Uses) (stabilizer, for hydrogen peroxide) 7664-38-2D, Phosphoric acid 107-43-7D, alkyl derivs. , alkyl and aryl esters RL: USES (Uses) (stabilizers, for hydrogen peroxide) ANSWER 130 OF 158 JAPIO COPYRIGHT 2003 JPO 1990-145542 **JAPIO** DIBASIC ACID ESTER MIYOSHI NORIYUKI; UEHATA MASASHI OKAMURA SEIYU KK JP 02145542 A 19900605 Heisei JP 1988-301417 (JP63301417 Showa) 19881128 PRAI JP 1988-301417 19881128 PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990 NEW MATERIAL: A dibasic acid ester expressed by formula I (R<SP>1</SP> and R<SP>2</SP> each are lower alkyl). EXAMPLE: Useful as an electrolyte for driving electrolytic capacitors, lubricating oil, cutting oil, plasticizer, etc., a raw material for producing glycidyl esters, polyesters, polyamides, etc., and further an epoxy curing agent, epoxy reaction diluents, etc. PREPARATION: For example, cyclohexanone is reacted with hydrogen peroxide in the presence of an acid catalyst (preferably sulfuric or phosphoric acid) in a lower alcohol expressed by formula II (e.g. absolute methanol or isopropanol) to provide a styrene derivative expressed by formula III, which is then reacted in the presence of a metal salt, preferably ferrous sulfate to afford the compound expressed by formula I. Furthermore, the ratio of the cyclohexanone to the hydrogen peroxide used is 80-130 pts.wt., especially about 100-110 pts.wt. latter based on 100 pts.wt. former. COPYRIGHT: (C) 1990, JPO&Japio

. . . polyamides, etc., and further an epoxy curing agent, epoxy

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reaction diluents, etc. PREPARATION: For example, cyclohexanone is reacted with hydrogen peroxide in the presence of an acid catalyst (preferably sulfuric or phosphoric acid) in a lower alcohol expressed by formula II (e.g. absolute methanol or isopropanol) to provide a styrene derivative expressed by formula III, which is then reacted in the presence of a metal salt, preferably ferrous sulfate to afford the compound expressed by formula I. Furthermore, the ratio of the cyclohexanone to the hydrogen peroxide used is 80-130 pts.wt., especially about 100-110 pts.wt. latter based on 100 pts.wt. former. COPYRIGHT: (C) 1990, JPO&Japio ANSWER 131 OF 158 JAPIO COPYRIGHT 2003 JPO JAPIO 1990-066175 ELECTROLESS NICKEL PLATING SOLUTION KOJIMA KAYOKO SHIMADZU CORP JP 02066175 A 19900306 Heisei JP 1988-217657 (JP63217657 Showa) 19880830 PRAI JP 1988-217657 19880830 PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990 PURPOSE: To prolong the service life of an electroless Ni plating soln. by adding hydrogen peroxide to an aq. soln. contg. Ni ions, a hypophosphite and an org. acid to inhibit the deposition of black Ni powder. CONSTITUTION: An aq. soln. contg. 35% hydrogen peroxide is added to an aq. soln. contg. nickel chloride or nickel sulfate , a hypophosphite such as sodium hypophosphite and an org. acid or org. acid salt and the resulting soln. is adjusted to about pH 4-6 to prepare an electroless Ni plating soln. When Ni plating is carried out with the plating soln., phosphorous acid does not accumulate over a certain concn. because it is oxidized to orthophosphoric acid by the hydrogen peroxide soln. Accordingly, the deposition of black Ni powder is inhibited and the service life of the plating soln. is prolonged. COPYRIGHT: (C) 1990, JPO&Japio hypophosphite and an org. acid to inhibit the deposition of black Ni powder. CONSTITUTION: An aq. soln. contg. 35% hydrogen peroxide is added to an aq. soln. contg. nickel chloride or nickel sulfate , a hypophosphite such as sodium hypophosphite and an org. acid or org. acid salt and the resulting soln. is adjusted. . . about pH 4-6 to prepare an electroless Ni plating soln. When Ni plating is carried out with the plating soln., phosphorous acid does not accumulate over a certain concn. because it is oxidized to orthophosphoric acid by the hydrogen peroxide soln. Accordingly, the deposition of black Ni powder is inhibited and the service life of the plating soln. is prolonged. ANSWER 132 OF 158 CAPLUS COPYRIGHT 2003 ACS 1989:479852 CAPLUS 111:79852 Flame-resistant nylon/cotton fabric durable to multiple launderings IN Hansen, John H. Burlington Industries, Inc., USA PCT Int. Appl., 22 pp. CODEN: PIXXD2 Patent English FAN.CNT 1 KIND DATE APPLICATION NO. DATE PATENT NO.

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WO 1988-US1649 19880524

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WO 8900217 A1 19890112

W: AU, BR, DK, FI, JP, KR, NO RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE US 1987-70559 19870707 US 4812144 Α 19890314 19880524 AU 1988-21239 AU 8821239 Α1 19890130 19880531 CA 1988-568261 CA 1273158 A1 19900828 PRAI US 1987-70559 19870707 19880524 WO 1988-US1649 OS MARPAT 111:79852 The title fabric is prepd. by treating a blend contg. cotton and AB .qtoreq.40% nylon fibers with compns. contg. prepolymers of urea and tetrakis(hydroxymethyl)phosphonium salts, drying the fabric to H2O content .apprx.20%, treating the fabric with NH3 to form a flame-retardant polymer network within the cotton, treating the fabric with oxidizing agents, then treating the fabric with cyclic phosphonate esters I (x = 0-1), tetrakis(hydroxymethyl)phosphonium salts, and urea, and finally treating the fabric with oxidizing agents to give a fabric with P content .gtoreq.2.47%. Thus, a 52:48 nylon-cotton blend was printed, padded with an aq. compn. contg. 34.0% tetrakis(hydroxymethyl)phosphonium chloride-urea copolymer (Retardol AC) to pickup 60%, dried to H2O content 14-15%, treated with NH3(g) for 3 min at 3.12 m3/h, oxidized with aq. 15% H2O2 for 5 min, washed, centrifuged, and dried. The fabric was then padded with an aq. compn. contg. urea 13.0, tetrakis(hydroxymethyl)phospho nium sulfate 50.0, and Antiblaze 19-T (cyclic phosphonate ester) to pickup 69%, dried, cured 70 s at 182.degree., oxidized with aq. 15% H2O2, washed, and dried to give a fabric with P content 4.76 (initially), 3.98 (after 25 launderings), and 3.71% (after 50 laundering) and char length 8.31 (initially), 10.92 (after 25 laundering), and 11.63 cm (after 50 launderings). The title fabric is prepd. by treating a blend contg. cotton and AB .gtoreq.40% nylon fibers with compns. contg. prepolymers of urea and tetrakis(hydroxymethyl)phosphonium salts, drying the fabric to H2O content .apprx.20%, treating the fabric with NH3 to form a flame-retardant polymer network within the cotton, treating the fabric with oxidizing agents, then treating the fabric with cyclic phosphonate esters I (x = 0-1), tetrakis(hydroxymethyl)phosphonium salts, and urea, and finally treating the fabric with oxidizing agents to give a fabric with P content .gtoreq.2.47%. Thus, a 52:48 nylon-cotton blend was printed, padded with an aq. compn. contg. 34.0% tetrakis(hydroxymethyl)phosphonium chloride-urea copolymer (Retardol AC) to pickup 60%, dried to H2O content 14-15%, treated with NH3(g) for 3 min at 3.12 m3/h, oxidized with aq. 15% H2O2 for 5 min, washed, centrifuged, and dried. The fabric was then padded with an aq. compn. contg. urea 13.0, tetrakis(hydroxymethyl)phospho nium sulfate 50.0, and Antiblaze 19-T (cyclic phosphonate ester) to pickup 69%, dried, cured 70 s at 182.degree., oxidized with aq. 15% H2O2, washed, and dried to give a fabric with P content 4.76 (initially), 3.98 (after 25 launderings), and 3.71% (after 50 laundering) and char length 8.31 (initially), 10.92 (after 25 laundering), and 11.63 cm (after 50 launderings). ANSWER 133 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 1990:98357 CAPLUS ANDN 112:98357 Simultaneous preparation of aldehydes and epoxides by oxidation of TI olefinic compounds Inagaki, Hiroyuki; Nakamura, Teiji; Nishikawa, Eiichiro; Imai, Chihiro; IN Misonoo, Makoto

PA Tonen Sekiyu Kagaku K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

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PATENT NO. KIND DATE
                                       APPLICATION NO. DATE
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    JP 01190647 A2 19890731
JP 08019027 B4 19960228
                                      JP 1988-12621 19880125
PΙ
                   B4 19960228
PRAI JP 1988-12621
                     19880125
    MARPAT 112:98357
os
    Aldehydes and epoxides are prepd. by oxidn. of compds. contg. olefinic
AB
    double bonds with H2O2 in the presence of heteropoly acids and/or their
     salts and MgSO4 (I) to prevent formation of diols. A Bu3PO4 soln. of H2O2
    was added dropwise to a mixt. of cyclopentene, H3PMo6W6O40, H3PO4, and I
    at 45.degree. over 20 min and the reaction mixt. was further stirred at
    45.degree. for 6 h to give 18.3% CH2(CH2CHO)2 and 16.7% cyclopentene
    oxide, vs. 21.7 and 1.3%, resp., for a control without addn. of I.
    7664-38-2, Phosphoric acid, uses and miscellaneous
TΤ
    RL: USES (Uses)
        (catalyst system contg. heteropoly acids and, for oxidn. of olefinic
       compds. with hydrogen peroxide)
    7487-88-9, Magnesium sulfate, uses and miscellaneous
TT
    RL: USES (Uses)
        (dehydrating agent, for oxidn. of olefinic compds. with
       hydrogen peroxide to aldehydes and epoxides)
    100-42-5, Styrene, reactions 110-83-8, Cyclohexene, reactions
IT
     142-29-0, Cyclopentene
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (oxidn. of, by hydrogen peroxide, aldehyde and
       epoxide from, magnesium sulfate dehydrating agent for)
    ANSWER 134 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1990:38081 CAPLUS
DN
    112:38081
    Improved bleaching of cellulose fibers by alkaline hydrogen peroxide
ΤI
IN
    Balland, Jean
    Manufacture de Produits Chimiques PROTEX S. A., Fr.
PΑ
SO
    Fr. Demande, 12 pp.
    CODEN: FRXXBL
DT
    Patent
    French
LΑ
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO. DATE
                                        -----
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                                                         -----
    FR 2626020 A1 19890721
                                       FR 1988-589
                                                        19880120
PΙ
                 B1 19900504
    FR 2626020
PRAI FR 1988-589
                          19880120
    In the title process, alkali metal, alk. earth, or NH4 persulfates and
    reducing agents are added to the bleaching bath. An ecru cotton fabric
    was bleached in an aq. soln. of 15 mL/L 35% H2O2, 10 mL/L 30%
    NaOH, Mg EDTA complex 10, softening agent 2, Na2S2O8 5, and 1:2:2 N2H4 Na
     (1-hydroxyethylidene)diphosphonate (I) 5 g/L at 103.degree. for
    20 min to gave a fabric with whiteness 86%; vs. 81 without Na2S2O8, 80
    without I, and 78 with neither.
    In the title process, alkali metal, alk. earth, or NH4 persulfates and
AB
    reducing agents are added to the bleaching bath. An ecru cotton fabric
    was bleached in an aq. soln. of 15 mL/L 35% H2O2, 10 mL/L 30%
    NaOH, Mg EDTA complex 10, softening agent 2, Na2S2O8 5, and 1:2:2 N2H4 Na
     (1-hydroxyethylidene)diphosphonate (I) 5 g/L at 103.degree. for
    20 min to gave a fabric with whiteness 86%; vs. 81 without Na2S2O8, 80
    without I, and 78 with neither.
    Bleaching agents
IT
        (hydrogen peroxide-peroxy sulfates
       -reducing agents, for cellulosic fibers)
    7722-84-1
IT
    RL: USES (Uses)
        (bleaching agents, hydrogen peroxide-peroxy
       sulfates-reducing agents, for cellulosic fibers)
```

TΤ 302-01-2, Hydrazine, uses and miscellaneous 7772-98-7, Sodium thiosulfate 7775-27-1, Disodium peroxydisulfate 7803-49-8, 29712-28-5, (Aminomethylene) Hydroxylamine, uses and miscellaneous diphosphonic acid 62607-44-7D, Sulfenic acid, hydroxyalkane 124766-02-5 derivs., salts RL: USES (Uses) (hydrogen peroxide bleaching of cellulosic fibers in presence of) ANSWER 135 OF 158 CAPLUS COPYRIGHT 2003 ACS AN 1988:572094 CAPLUS

L3

ממ 109:172094

Flame-resistant cotton blend fabrics TT

IN Hauser, Peter J.; Triplett, Benny L.; Sujarit, Chumpon; Hansen, John H.; Johnson, James R.

Burlington Industries, Inc., USA PΑ

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DТ Patent

English LA

FAN.CNT 2

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
ΡI	-	A1 19880407	WO 1987-US2432	19870925
	W: AU, DK,	•		
	RW: AT, BE,	CH, DE, FR, GB,		
	US 4750911	A 19880614	US 1986-911720	19860926
	US 4732789	A 19880322	US 1986-923965	19861028
	AU 8780716	A1 19880421	AU 1987-80716	19870925
	AU 603391	B2 19901115		
	JP 02500454	T2 19900215	JP 1987-506118	19870925
	AT 104000	E 19940415	AT 1987-906715	19870925
	NO 8802310	A 19880725	NO 1988-2310	19880525
	NO 173790	B 19931025		
	NO 173790	C 19940202		
	DK 8802892	A 19880526	DK 1988-2892	19880526
PRAI	US 1986-911720	19860926		
	US 1986-923965	19861028		
	EP 1987-906715	19870925		
	WO 1987-US2432	19870925		
		_		· .

A 2-step process for imparting washfast flame resistance to AB polyester/cotton or nylon/cotton blends comprises steps of (A) applying to the textile a flame retarding amt. of a precondensate of urea and a tetrakis(hydroxymethyl)phosphonium (I) salt flame retardant which fixes to the cotton, exposing to a source of NH3 to form an ammoniated prepolymer, then oxidizing to form a polymer network, and (B) applying a flame retarding amt. of a cyclic phosphonate ester or hexabromocyclododecane flame retardant, then curing to fix the flame retardant in the synthetic fibers. A 50/50 nylon/cotton textile was padded with a urea-I sulfate precondensate to 61% wet pickup, the textile equilibrated in a plastic bag for 1-2 h, exposed to NH3, oxidized with H2O2 at pH 9-9.5, rinsed, dried, padded with a 15% soln. of a cyclic phosphonate ester, and heated to give a textile with char length (FTM 5903) 5 cm as-prepd. and 11.4 cm after 25 wash cycles.

AB A 2-step process for imparting washfast flame resistance to polyester/cotton or nylon/cotton blends comprises steps of (A) applying to the textile a flame retarding amt. of a precondensate of urea and a tetrakis(hydroxymethyl)phosphonium (I) salt flame retardant which fixes to the cotton, exposing to a source of NH3 to form an ammoniated prepolymer, then oxidizing to form a polymer network, and (B) applying a flame retarding amt. of a cyclic phosphonate ester or hexabromocyclododecane flame retardant, then curing to fix the flame retardant in the synthetic fibers. A 50/50 nylon/cotton textile was padded with a urea-I sulfate precondensate to 61% wet pickup, the textile equilibrated

in a plastic bag for 1-2 h, exposed to NH3, oxidized with H2O2 at pH 9-9.5, rinsed, dried, padded with a 15% soln. of a cyclic phosphonate ester, and heated to give a textile with char length (FTM 5903) 5 cm as-prepd. and 11.4 cm after 25 wash cycles.

- L3 ANSWER 136 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1989:25349 CAPLUS
- DN 110:25349
- TI Flame-resistant polyester/cotton fabric and process for its production
- IN Johnson, James R.; Sujarit, Chumpon
- PA Burlington Industries, Inc., USA
- SO U.S., 8 pp. Cont.-in-part of U.S. Ser. No. 870,892: CODEN: USXXAM
- DT Patent
- LA English
- FAN.CNT 3

1211							PLICATION NO.	
DT		4540505		10000007			1987-23372	10070300
ΡI								
				19900/12		TIL	1987-82367 1987-72465	19070420
		8772465 597358				AU	1307-72403	13670304
				19871209		מש	1987-304250	19870513
		248553 248553				EP	1907-304250	19670313
		248553		19901114				
					a (25	, -	IT, LI, LU, NL	SE
		1273757	A1				1987-537057	
							1987-304250	
		2038177	TrЗ	19930716		ES	1987-304250	19870513
	FT	8702131	A	19871206		FI	1987-304250 1987-2131	19870514
	FΪ	92606	В	19940831				
		92606						
		62299574		19871226		JР	1987-120341	19870519
		8702198					1987-2198	
	NO	172655	В	19930510				
	NO	172655	С	19930818				
	CN	87104025	Α	19871216		CN	1987-104025	19870604
	CN	1022193		19930922				
	BR	8702854	A	19880301		BR	1987-2854 1988-195858	19870604
		4902300	Α	19900220		US	1988-195858	19880519
							1988-216185	
		5238464				US	1992-855499	19920323
PRAI	-	1986-870892		19860605				
		1987-23372		-				
		1987-304250						
		1987-52937		19870522				
		1988-195858						
	US	1989-446071		19891205				

OS MARPAT 110:25349

A process for imparting flame resistance to a polyester/cotton fabric AΒ contg. .gtoreq.40 wt.% polyester fiber comprises applying to the blend fiber a flame retarding amt. of I (x = 0, 1) which fixes onto the polyester fiber, applying a flame retarding amt. of a prepolymer condensate of urea and tetrakis (hydroxymethyl) phosphonium (II) salt flame retardant which fixes to cotton, exposing to NH3 to form an ammoniated prepolymer to form a flame-retardant polymer network in the cotton fiber, applying a flame retarding amt. of II sulfate and urea to fabric, heating, and oxidizing with H2O2 to further improve flame resistance. A 40/60 polyester cotton heavy wt. twill was padded with a cyclic phosphonate, cured, treated with II-urea precondensate, treated with II sulfate urea, heated to reduce moisture content, exposed to NH3, and oxidized with H2O2. The resulting fabric retained .apprx.80% of initial P after 50 washes and when evaluated by FR Federal Test Method 5903 gave a value of .apprx. 4.

A process for imparting flame resistance to a polyester/cotton fabric AΒ contg. .gtoreq.40 wt.% polyester fiber comprises applying to the blend fiber a flame retarding amt. of I (x = 0, 1) which fixes onto the polyester fiber, applying a flame retarding amt. of a prepolymer condensate of urea and tetrakis (hydroxymethyl) phosphonium (II) salt flame retardant which fixes to cotton, exposing to NH3 to form an ammoniated prepolymer to form a flame-retardant polymer network in the cotton fiber, applying a flame retarding amt. of II sulfate and urea to fabric, heating, and oxidizing with H2O2 to further improve flame resistance. A 40/60 polyester cotton heavy wt. twill was padded with a cyclic phosphonate, cured, treated with II-urea precondensate, treated with II sulfate urea, heated to reduce moisture content, exposed to NH3, and oxidized with H2O2. The resulting fabric retained .apprx.80% of initial P after 50 washes and when evaluated by FR Federal Test Method 5903 gave a value of .apprx. 4.

ANSWER 137 OF 158 CAPLUS COPYRIGHT 2003 ACS L3

AN 1988:226913 CAPLUS

108:226913 DN

Disinfectants containing hydrogen peroxide and silver salts TI

IN Goemoeri, Janos

Sanosil A.-G., Switz. PA

Ger. Offen., 4 pp. SO

CODEN: GWXXBX

DTPatent

LA German

FAN.	CNT 1					
	PATENT NO.	KIND	DATE	AP	PLICATION NO.	DATE
				<b></b> -		
ΡI	DE 3620609	A1	19871105	DE	1986-3620609	19860620
	DE 3620609	C2	19930729			
	CH 673225	A	19900228		1986-1629	19860422
	DE 3645266	C2	19950504		1986-3645266	19860620
	US 4915955	Α	19900410		1986-904055	19860905
	HU 45383	A2	19880728	HU	1986-4122	19860926
	HU 200944	В	19900928			
	AU 8767854	A1	19871029	AU	1987-67854	19870121
	AU 590379	B2	19891102			
	GB 2189394	<b>A1</b>	19871028	GB	1987-2506	19870204
	GB 2189394	B2	19910109			
	CA 1288334	A1	19910903		1987-533260	19870330
	NL 8700749	A	19871116	NL	1987-749	19870331
	NL 192918	В	19980105			
	NL 192918	C	19980507			
	IN 168298	A	19910309	IN	1987-DE275	19870331
	SE 8701500	Α	19871023	SE	1987-1500	19870410
	SE 468968	В	19930426			
	SE 468968	С	19930819			
	JP 62255401	A2	19871107	JP	1987-95501	19870420
	JP 08002769	B4	19960117			
	FR 2597347	A1	19871023	FR	1987-5589	19870421
	FR 2597347	B1	19940211			
	BE 1000083	A7	19880202	BE	1987-427	19870421
	BR 8701885	A	19880202	BR	1987-1885	19870421
	ES 2004931	A6	19890216	ES	1987-1150	19870421
	CZ 282207	В6	19970611	CZ	1987-2804	19870421
	SK 279184	В6	19980708	SK	1987-2804	19870421
	CZ 284378	В6	19981111	CZ	1996-2925	19870421
	DK 8702045	A	19871023	DK	1987-2045	19870422
	DK 167948	B1	19940110			
	AT 389802	. В	19900212	AT	1987-1764	19870713
	AT 8701764	Α	19890715			
	IN 173798	A	19940716	IN	1989-DE888	19891005
	JP 08225418	A2	19960903		1995-173787	19950710

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PRAI CH 1986-1629
                           19860422
                     Α
    DE 1986-3620609 A3 19860620
    IN 1987-DE275 A1 19870331
CS 1987-2804 A 19870421
    A process for the prepn. of a H2O2-miscible conc. comprises mixing an
AΒ
     acidic aq. soln. wherein pH is adjusted to .ltoreq.1.6 with an inorg. acid
     at 50-60 degree. with a 100 .+-. 5 g/L Ag salt or Ag complex. The acidic
     soln. is prepd. at 25-30.degree. and contains acid in an amt. at least
     equimolar with Ag, and the soln. contains an org. stabilizer and
    optionally gelatin, and it is finally homogenized. The conc. has
     unlimited storage stability and is mixed with H2O2 (I) to give a
     disinfectant. Sufficient 75% H3PO4 was added to 1 L H2O to give a soln.
     with pH .ltoreq.1.6 at 20.degree., the soln. was heated to 55.degree. and
     mixed with 140 g AgNO3, the soln. was cooled to 25-30.degree., and H3PO4
    was added to a total amt. of 100 g. The mixt. was cooled to
     20-25.degree., mixed with 50 g tartaric acid, 20 g gelatin, and
    homogenized. The conc. (5 L) was mixed with 50% by vol. I in a 1:99
     ratio; the disinfectant was useful for the long-term disinfection of
    whirl-pools and circulation systems of water purifiers.
     7440-22-4D, Silver, salts 7761-88-8, Silver nitrate, biological studies
TΤ
     7783-90-6, Silver chloride, biological studies 10294-26-5, Silver
             66942-69-6
     sulfate
     RL: BIOL (Biological study)
        (disinfectants contq. hydrogen peroxide and)
     65-85-0D, Benzoic acid, alkali salts 77-92-9, Citric acid, biological
IT
     studies 87-69-4, Tartaric acid, biological studies 7664-38-2,
     Phosphoric acid, biological studies 7664-93-9,
     Sulfuric acid, biological studies 7697-37-2, Nitric acid, biological
     studies
     RL: BIOL (Biological study)
        (disinfectants contg. hydrogen peroxide and silver
        salts and)
    ANSWER 138 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
AN
    1987:428199 CAPLUS
DN
    107:28199
    Oxidative hair dyes
ΤI
    Hollenberg, Detlef; Neuhaus, Winifried; Schrader, Dieter
IN
    Henkel K.-G.a.A., Fed. Rep. Ger.
PΑ
SO
    Ger. Offen., 5 pp.
     CODEN: GWXXBX
DT
    Patent
    German
T<sub>1</sub>A
FAN.CNT 1
                                    APPLICATION NO. DATE
     PATENT NO. KIND DATE
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                                          -----
                                        DE 1985-3534471 19850927
    DE 3534471 A1 19870402
EP 216334 A2 19870401
EP 216334 A3 19870527
EP 216334 B1 19901031
PΙ
                                          EP 1986-112978 19860919
        R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
     AT 57830 E 19901115 AT 1986-112978 19860919
JP 62072608 A2 19870403 JP 1986-229463 19860927
PRAI DE 1985-3534471
                          19850927
     EP 1986-112978
                           19860919
     An oxidative hair dye is made of an oxidative dye cream and an oxidizing
AB
     prepn. The 2 are kept sep. in containers sepd. by a wall. Prior to use,
     the wall is destroyed mech. and the 2 components are mixed. Both
     components are oil-in-water emulsions. The oxidative cream contains
     0.1-5% dye precursors and the oxidizing prepn. 1.5-15% H2O2. Theres is a
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1-3:1 oxidative cream/oxidizing prepn. ratio. Thus, an oxidative dye cream contained C12-10 fatty alc. 10, C16-18 polyethoxylated fatty alc. polyglycol ether 0.75, 28% C12-14 diethoxylated fatty alc. polyglycol ether sulfate Na salt 20, 30% cocoacylamidopropyldimethylammonium

glycinate 12.5, cationic cellulose deriv. 1, EDTA 0.2, Na2SO3 0.5, ascorbic acid 0.5, (NH4)2SO4 1.5, perfume 0.2, p-toluylenediamine 0.13, p-aminophenol 0.05, resorcinol 0.1, 2,4-diaminophenetol 0.002, .alpha.-naphthol 0.02 and water to 100% by wt. The pH was adjusted to 10 (NH3). The oxidizing prepn. contained cetyl alc. 1.5, C12-14 diethoxylated fatty alc. polyglycol ether 3, 25% C12-14 polyethoxylated fatty alc. polyglycol ether sulfate Na salt 8, NH4NO3 0.012, Na4P2O7 0.03, dipicolinic acid 0.1, 1-hydroxyethane-1,1diphosphonic acid 1.5, 50% H2O2 12, and water to 100% by wt. The pH was adjusted to 4 (NH3).

An oxidative hair dye is made of an oxidative dye cream and an oxidizing prepn. The 2 are kept sep. in containers sepd. by a wall. Prior to use, the wall is destroyed mech. and the 2 components are mixed. Both components are oil-in-water emulsions. The oxidative cream contains 0.1-5% dye precursors and the oxidizing prepn. 1.5-15% H2O2. Theres is a 1-3:1 oxidative cream/oxidizing prepn. ratio. Thus, an oxidative dye cream contained C12-10 fatty alc. 10, C16-18 polyethoxylated fatty alc. polyglycol ether 0.75, 28% C12-14 diethoxylated fatty alc. polyglycol ether sulfate Na salt 20, 30% cocoacylamidopropyldimethylammonium glycinate 12.5, cationic cellulose deriv. 1, EDTA 0.2, Na2SO3 0.5, ascorbic acid 0.5, (NH4)2SO4 1.5, perfume 0.2, p-toluylenediamine 0.13, p-aminophenol 0.05, resorcinol 0.1, 2,4-diaminophenetol 0.002, .alpha.-naphthol 0.02 and water to 100% by wt. The pH was adjusted to 10 (NH3). The oxidizing prepn. contained cetyl alc. 1.5, C12-14 diethoxylated fatty alc. polyglycol ether 3, 25% C12-14 polyethoxylated fatty alc. polyglycol ether sulfate Na salt 8, NH4NO3 0.012, Na4P2O7 0.03, dipicolinic acid 0.1, 1-hydroxyethane-1,1diphosphonic acid 1.5, 50% H2O2 12, and water to 100% by wt. The pH was adjusted to 4 (NH3).

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ANSWER 139 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
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- 1986:562188 CAPLUS AN
- DN 105:162188
- Forming color images TI
- IN Iwano, Haruhiko
- PA Fuji Photo Film Co., Ltd., Japan
- Jpn. Kokai Tokkyo Koho, 15 pp. SQ CODEN: JKXXAF
- DTPatent
- LA Japanese
- FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE	
ΡI	JP 61088259	A2	19860506	JP 1984-209562	19841005	
PRAI	JP 1984-209562		19841005			

In a method for color image formation involving intensified development by use of a developer-intensifying soln. contg. H2O2 (or a H2O2-releasing compd.) and a color developer and substantially not contg. Br and I anions, Ag halide color photog. materials which have been imagewise-exposed are treated, prior to the intensifying process, with a pretreatment soln. of a compn. contg. a color developer. The improved method for color development provides good photog. image properties with short processing time. Thus, a Ag(Br,Cl) emulsion (av. grain size, 0.28 .mu.m) was mixed with a dispersion of a magenta dye coupler, 1-(2,4,6-trichlorophenyl)-3-(2-chloro-5-tetradecanamido)anilino-2pyrazolin-5-one, and was coated on a support to give a photog. film. After being wedge-exposed, the film was pretreated with a soln. comprising K2SO3, K3PO4, K2HPO4, 1-hydroxyethane-1,1-diphosphonic acid, 5-nitrobenzotriazole, and 4-amino-3-methyl-N-ethyl-N-.beta.-(methanesulfonamido) ethylaniline sulfate, developed with an intensifier soln. contg. H2O2 in addn. to the above components, and fixed to give a magenta dye image, which showed high sensitivity and high color d. as compared with a control film which was developed by a process omitting the above pretreatment.

In a method for color image formation involving intensified development by AB use of a developer-intensifying soln. contg. H2O2 (or a H2O2-releasing compd.) and a color developer and substantially not contg. Br and I anions, Ag halide color photog. materials which have been imagewise-exposed are treated, prior to the intensifying process, with a pretreatment soln. of a compn. contg. a color developer. The improved method for color development provides good photog. image properties with short processing time. Thus, a Ag(Br,Cl) emulsion (av. grain size, 0.28 .mu.m) was mixed with a dispersion of a magenta dye coupler, 1-(2,4,6-trichlorophenyl)-3-(2-chloro-5-tetradecanamido)anilino-2pyrazolin-5-one, and was coated on a support to give a photog. film. After being wedge-exposed, the film was pretreated with a soln. comprising K2SO3, K3PO4, K2HPO4, 1-hydroxyethane-1,1-diphosphonic acid, 5-nitrobenzotriazole, and 4-amino-3-methyl-N-ethyl-N-.beta.-(methanesulfonamido)ethylaniline sulfate, developed with an intensifier soln. contg. H2O2 in addn. to the above components, and fixed to give a magenta dye image, which showed high sensitivity and high color d. as compared with a control film which was developed by a process omitting the above pretreatment.

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ANSWER 140 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
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AN1984:42999 CAPLUS

DN100:42999

Color photographic imaging method

Hirai, Hiroyuki; Nakamura, Koichi; Iwano, Haruhiko

Fuji Photo Film Co., Ltd., Japan PΑ

SO Ger. Offen., 71 pp.

CODEN: GWXXBX

DTPatent

LΑ German

FAN.CNT 1

T. T.T.A. + A	CIVI				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3302741	A1	19830804	DE 1983-3302741	19830127
	DE 3302741	C2	19920702		
	JP 58127926	A2	19830730	JP 1982-11176	19820127
	JP 03008535	B4	19910206		
	JP 58137837	A2	19830816	JP 1982-20046	19820210
	JP 63020330	B4	19880427		
	JP 58140741	A2	19830820	JP 1982-23140	19820216
	JP 63020331	B4	19880427		
	GB 2117914	A1	19831019	GB 1983-2027	19830125
	GB 2117914	B2	19850710		
	US 4469780	Α	19840904	US 1983-461430	19830127
PRAI	JP 1982-11176		19820127		
	JP 1982-20046		19820210		
	JP 1982-23140		19820216		

The formation of color stain in photog. materials contg. extremely small AΒ amts. of Ag and which are processed by using a combined development and intensification bath can be reduced by posttreatment of the material in a dil. buffer soln. having a pH of 2 to 7. This process allows the elimination of the usual washing step. Thus, on a TiO2-coated polyethylene support there was coated a blue-sensitive gelatin-Ag(Br,Cl) (80 mol% Br-) emulsion layer (8 mg Ag/m2) contg. a yellow coupler, a qelatin layer, a green-sensitive gelatin-Ag (Br,Cl) (30 mol% Br-) emulsion layer (5 mg Ag/m2) contg. a magenta coupler, a gelatin layer contg. 2-(2-hydroxy-3-sec-butyl)-5-tert-butylphenyl)benzotriazole and dioctylhydroquinone, a red-sensitive gelatin-Ag(Br,Cl) (30 mol% Br-) emulsion layer (5 mg Ag/m2) contg. a cyan coupler, and a gelatin top layer. The resultant film was exposed and developed in a bath contg. K2SO3, K3PO4, K2HPO4, 1-hydroxyethane-1,1-diphosphonic acid, benzotriazole, 4-amino-3-methyl-N-ethyl-N-.beta.-(methanesulfonamido) ethylaniline 3/2 sulfate, 30% H2O2

, and H2O at pH 11.0 for 1 min at 35.degree.. The developed film was then

washed in a buffer soln. (pH 3.2) contg. 0.1 N HCl 350 mL, Na citrate dihydrate 4.4 g, and H2O 1 L to give images with a blue min d. of 0.13, green min. d. of 0.13, and red min d. of 0.12 vs. 0.40, 0.30, and 0.23, resp., for a film just washed with H2O after development. The formation of color stain in photog. materials contg. extremely small AΒ amts. of Ag and which are processed by using a combined development and intensification bath can be reduced by posttreatment of the material in a dil. buffer soln. having a pH of 2 to 7. This process allows the elimination of the usual washing step. Thus, on a TiO2-coated polyethylene support there was coated a blue-sensitive gelatin-Ag(Br,Cl) (80 mol% Br-) emulsion layer (8 mg Ag/m2) contg. a yellow coupler, a gelatin layer, a green-sensitive gelatin-Ag (Br,Cl) (30 mol% Br-) emulsion layer (5 mg Ag/m2) contg. a magenta coupler, a gelatin layer contg. 2-(2-hydroxy-3-sec-butyl)-5-tert-butylphenyl)benzotriazole and dioctylhydroquinone, a red-sensitive gelatin-Ag(Br,Cl) (30 mol% Br-) emulsion layer (5 mg Ag/m2) contg. a cyan coupler, and a gelatin top layer. The resultant film was exposed and developed in a bath contg. K2SO3, K3PO4, K2HPO4, 1-hydroxyethane-1,1-diphosphonic acid, benzotriazole, 4-amino-3-methyl-N-ethyl-N-.beta.-(methanesulfonamido) ethylaniline 3/2 sulfate, 30% H2O2 , and H2O at pH 11.0 for 1 min at 35.degree.. The developed film was then washed in a buffer soln. (pH 3.2) contg. 0.1 N HCl 350 mL, Na citrate dihydrate 4.4 g, and H2O 1 L to give images with a blue min d. of 0.13, green min. d. of 0.13, and red min d. of 0.12 vs. 0.40, 0.30, and 0.23, resp., for a film just washed with H2O after development. ANSWER 141 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 1983:506726 CAPLUS AN DN 99:106726 Bleaching of keratin-containing natural fibers ΤI IN Bereck, Attila Rheinisch-Westfaelischen Technischen Hochschule Aachen, Deutsches PA Wollforschungsinstitut, Fed. Rep. Ger. SO Ger. Offen., 19 pp. CODEN: GWXXBX DT Patent German FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----\_\_\_\_\_ ΡI

LA

DE 3149978 A1 19830630 DE 3149978 C2 19850905 DE 1981-3149978 19811217 PRAI DE 1981-3149978 19811217

Keratin-contg. natural fibers are bleached by a process which comprises mordanting with a Fe2+ salt soln. in the presence of a P compd. reducing agent and optionally washing .gtoreq.5 min at .gtoreq.70.degree. (or longer at lower temps. to .gtoreq.5 h at 10.degree.), and bleaching with a peroxide soln. Thus, 4 g each of black karakul wool and white merino wool were treated with a compn. contg. FeSO4 10, 50% H3PO2 2, and a wetting agent 0.1 g/L at a 1:40 bath ratio at 80.degree. for 1 h (pH 3-3.5), the bath drained, washed with 2 g/L H3PO2 soln. at 80.degree. for 10 min, drained, and washed with 80.degree. H2O for 10 min. The wool was treated at 55.degree. for 2 h at pH 8.5 in a bath contg. 10 mL/L H2O2 and 10 g/L tetra-Na pyrophosphate decahydrate to give whitened wool. The brightness of the karakul wool was 33 (Y coordinate of CIE color system) compared with 6.5 for the untreated material. This process is esp. useful for removal of pigmented single fiber in tech. white wool and gives wool with reduced alkali soly.

7720-78-7 TT

RL: USES (Uses)

(mordants, treatment of wool with phosphorus acid and, for improved bleaching properties. with hydrogen peroxide)

6303-21-5 IT

RL: USES (Uses) (wool pretreatment by ferrous sulfate and, for improved bleachability with hydrogen peroxide) ANSWER 142 OF 158 JAPIO COPYRIGHT 2003 JPO **L3** AN1982-062251 **JAPIO** PREPARATION OF CYSTEAMINE AND/OR CYSTAMINE TТ YAMAGUCHI HACHIRO IN PA SOGO YATSUKOU KK JP 57062251 A 19820415 Showa PΙ JP 1980-135841 (JP55135841 Showa) 19801001 ΑI PRAI JP 1980-135841 19801001 PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1982 PURPOSE: To prepare the titled compound useful as a perventive for AB radiation diseases or its intermediate, in high yield, without producing by-products, by reacting (2-aminoethyl) hydrogen sulfate with sodium thiosulfate, and hydrolyzing the product with a strong acid or hydrogen peroxide. CONSTITUTION: 1mol of (2-aminoethyl) hydrogen sulfate which is a novel raw material having excellent economic value, reactivity, and safety, is made to react with 1∼5mol of sodium thiosulfate at 4∼7pH and about 100&deq; Cfor several hours. The reaction product is hydrolyzed with an aqueous solution of a strong acid such as hydrochloric acid, sulfuric acid, phosphoric acid, etc. or hydrogen peroxide solution in nitrogen gas stream to obtain the objective compound while suppressing the production of di(2-aminoethyl)sulfide. COPYRIGHT: (C) 1982, JPO&Japio useful as a perventive for radiation diseases or its AB intermediate, in high yield, without producing by-products, by reacting (2-aminoethyl) hydrogen sulfate with sodium thiosulfate, and hydrolyzing the product with a strong acid or hydrogen peroxide. CONSTITUTION: 1mol of (2-aminoethyl) hydrogen sulfate which is a novel raw material having excellent economic value, reactivity, and safety,. hours. The reaction product is hydrolyzed with an aqueous solution of a strong acid such as hydrochloric acid, sulfuric acid, phosphoric acid, etc. or hydrogen peroxide solution in nitrogen gas stream to obtain the objective compound while suppressing the production of di(2-aminoethyl)sulfide. COPYRIGHT: (C) 1982, JPO&Japio ANSWER 143 OF 158 JAPIO COPYRIGHT 2003 JPO L3AN 1980-098750 JAPIO PHOTOGRAPHIC BLEACHING COMPOSITION ΤI IDOTA YOSHIO; YAMADA MINORU IN FUJI PHOTO FILM CO LTD PA JP 55098750 A 19800728 Showa JP 1979-6645 (JP54006645 Showa) 19790123 ΑI PRAI JP 1979-6645 19790123 PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1980 SO PURPOSE: To always maintain stable bleaching capacity in treatment of a silver halide color photographic material by adding optionally substituted aromatic sulfonic acid or sulfonate to hydrogen peroxide and metal complex salt of organic CONSTITUTION: An adequate amt. of aromatic sulfonic acid or sulfonate optionally substituted by at least one of carboxyl group, nitro group, etc. is added to a bleaching bath containing 0.01∼ 10mol/l of hydrogen peroxide and a hydrogen peroxide- releasing substance such as perboric acid, perborate, percarbonic acid or percarbonate and metal complex salt of organic acid prepared by chelating amino-carboxylic acid, organic phosphonic acid or the like with metal ion such as iron or cobalt ion, e.g. 0.0001∼2mol/l of ferric ion complex salt. By

making use of the resulting bleaching composition, environmental pollution is controlled, and bleaching speed is increased. Staining and occurrence of inferior recoloring phenomenon are prevented. COPYRIGHT: (C) 1980, JPO&Japio

To always maintain stable bleaching capacity in treatment of a silver halide color photographic material by adding optionally substituted aromatic sulfonic acid or sulfonate to hydrogen peroxide and metal complex salt of organic CONSTITUTION: An adequate amt. of aromatic sulfonic acid or sulfonate optionally substituted by at least one of carboxyl group, nitro group, etc. is added to a bleaching bath containing 0.01∼10mol/l of hydrogen peroxide and a hydrogen peroxide- releasing substance such as perboric acid, perborate, percarbonic acid or percarbonate and metal complex salt of organic acid prepared by chelating amino-carboxylic acid, organic phosphonic acid or the like with metal ion such as iron or cobalt ion, e.g. 0.0001∼2mol/l of ferric ion complex salt. By. .

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ANSWER 144 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1978:607306 CAPLUS
AN
DN
     89:207306
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Photoresist removal solutions TΙ

Harita, Yoshiyuki; Hanaoka, Hideyuki; Harada, Kunihiro IN

Japan Synthetic Rubber Co., Ltd., Japan PΑ

Jpn. Kokai Tokkyo Koho, 5 pp. SO CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.		DATE	APPLICATION NO.	DATE	
ΡI	JP 53025102	A2	19780308	JP 1976-99492	19760820	
	JP 59050054	B4	19841206			
PRAI	JP 1976-99492		19760820			

Photoresist removal solns. are composed of H2O2, an org. solvent, and .gtoreq.1 compd. selected from sulfonic acids, sulfuric acid esters, and phosphoric acid esters. The solns. are esp. useful for removal of photohardened polybutadiene-type resists. Thus, a photoresist compn. consisting of cyclized cis-1,4-polybutadiene (degree of cyclization 65%, .eta. = 0.45), 2,6-bis(4'-azidobenzal)cyclohexanone (a photocrosslinking agent; 3 wt.% of the polymer), 2,6-di-tert-butyl-p-cresol ( a stabilizer; 1 wt.% of the polymer), and phenyl-.alpha.-naphthylamine (a stabilizer; 1 wt.% of the polymer) was coated on a Si wafer, imagewise exposed, developed, and hardened by heating at 200.degree. for 30 min to give a resist pattern. The wafer was then immersed in a mixt. of o-dichlorobenzene 50, dodecylbenzenesulfonic acid 30, and a 38% H2O2 soln. 20 g and heated at 60.degree. for 5 min to completely remove the resist pattern.

Photoresist removal solns. are composed of H2O2, an org. solvent, and .gtoreq.1 compd. selected from sulfonic acids, sulfuric acid esters, and phosphoric acid esters. The solns. are esp. useful for removal of photohardened polybutadiene-type resists. Thus, a photoresist compn. consisting of cyclized cis-1,4-polybutadiene (degree of cyclization 65%, .eta. = 0.45), 2,6-bis(4'-azidobenzal)cyclohexanone (a photocrosslinking agent; 3 wt.% of the polymer), 2,6-di-tert-butyl-p-cresol ( a stabilizer; 1 wt.% of the polymer), and phenyl-.alpha.-naphthylamine (a stabilizer; 1 wt.% of the polymer) was coated on a Si wafer, imagewise exposed, developed, and hardened by heating at 200.degree. for 30 min to give a resist pattern. The wafer was then immersed in a mixt. of o-dichlorobenzene 50, dodecylbenzenesulfonic acid 30, and a 38% H2O2 soln. 20 g and heated at 60.degree. for 5 min to completely remove the resist pattern.

Sulfonic acids, uses and miscellaneous IT

RL: USES (Uses)

(polybutadiene photoresist removal solns. contg. hydrogen peroxide, org. solvent and)

Rubber, butadiene, uses and miscellaneous IT

RL: USES (Uses)

(of cis-1,4-configuration, photoresists, removal of hardened, solns. contg. hydrogen peroxide, org. solvent and sulfuric or phosphoric acid esters for)

ITResists

(photo-, polybutadiene, removal of hardened, solns. contg. hydrogen peroxide, org. solvent and sulfuric or phosphoric acid esters for)

- ANSWER 145 OF 158 CAPLUS COPYRIGHT 2003 ACS L3
- 1978:55113 CAPLUS AN
- DN
- Storage-stable concentrates of functional compositions TI
- Grosse, Boewing Walter; Mrozek, Hinrich; Schluessler, Hans Joachim; IN Tinnefeld, Bernd; Voegele, Peter
- Henkel und Cie. G.m.b.H., Fed. Rep. Ger. PA
- SO Ger. Offen., 13 pp.
- CODEN: GWXXBX
- DTPatent

LA FAN.		rman					
FAN.		TENT NO.	KIND	DATE	API	PLICATION NO.	DATE
ΡI		2616049	<b>A1</b>	19771027	DE	1976-2616049	19760412
		2616049	C2	19870625			
		7608459	A	19770217	SE	1976-8459	19760726
	SE	438424	В	19850422			
		438424	С	19850801			
	ИО	7602605	Α	19770217	NO	1976-2605	19760726
		146697	В	19820816			
	ИО	146697	C	19821124			
	DK	7603363	Α	19770217	DK	1976-3363	19760726
		156026	В	19890619			
	DK	156026	С	19891106			
	FΙ	7602128	Α	19770217	FΙ	1976-2128	19760726
	FΙ	63222	В	19830131			
	FI	63222	C	19830510			
	NL	7608265	A	19770218		1976-8265	19760726
	NL	7608266	Α	19770218		1976-8266	19760726
	US	4051059	Α	19770927		1976-711206	19760803
	US	4051058	Α	19770927		1976-711205	19760803
	CA	1050876	A1	19790320	CA	1976-258701	19760809
	CA	1050877	A1	19790320	CA	1976-258702	19760809
	BR	7605307	Α	19770809	BR	1976-5307	19760813
	AT	7606032	Α	19780915	AΤ	1976-6032	19760813
	$\mathtt{AT}$	349653	В	19790425			
	ΑT	7606029	Α	19781015	AT	1976-6029	19760813
	AT	350194	В	19790510			
	GB	1561680	Α	19800227	GB	1976-33746	19760813
	GB	1563713	Α	19800326	GB	1976-33745	19760813
	CH	620676	Α	19801215	CH	1976-10362	19760813
	JP	52025011	A2	19770224	JP	1976-97655	19760816
	JP	61010465	B4	19860329			
	JP	52025034	A2	19770224	JР	1976-97654	19760816
	JP	61014122	B4	19860417			
	FR	2321301	A1	19770318	FR	1976-24850	19760816
	FR	2321301	B1	19800430			
	FR	2321302	A1	19770318	FR	1976-24851	19760816
	FR	2321302	B1	19790504			

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19750816
PRAI DE 1975-2536617
    DE 1975-2536618
                            19750816
                           19760412
    DE 1976-2616049
    Storage-stable concs. for oxidn. of org. materials (i.e, hair, textiles)
AB
     and for disinfection of machinery such as that used in the food industry
     comprise a C2-3 peracid and/or aliph. monocarboxylic acid 0.5-20,
    H2O2 25-40, a phosphoric acid or a H2O-sol.
    phosphonic acid salt 0.25-10, an anionic
     alkylbenzenesulfonate, alkyl sulfate or alkylsulfonate wetting
     agent 0.05-5% and H2O. These concs. also do not show the strong odor and
     irritancy of mixts. contg. only peracetic acid and AcOH [64-19-7]. For
     example, a conc. for prepn. (by diln.) of microbicidal agents comprised
     AcOH 5, H202 27.6, hydroxyethane-1.1-diphosphonic acid
     [2809-21-4] 1.5, a C12 alkylbenzenesulfonate 1.5, and H2O 64.4%. The
     conc. contained 28.3% H2O2 and 2.3% peracetic acid just after prepn., 27.5
     and 2.3%, resp., after 1 mo, and 26.5 and 2.3%, resp., after 6 mo.
     Similar storage stability was also obsd. at 40.degree..
     Storage-stable concs. for oxidn. of org. materials (i.e, hair, textiles)
AB
     and for disinfection of machinery such as that used in the food industry
     comprise a C2-3 peracid and/or aliph. monocarboxylic acid 0.5-20,
    H202 25-40, a phosphoric acid or a H20-sol.
     phosphonic acid salt 0.25-10, an anionic
     alkylbenzenesulfonate, alkyl sulfate or alkylsulfonate wetting
     agent 0.05-5% and H2O. These concs. also do not show the strong odor and
     irritancy of mixts. contg. only peracetic acid and AcOH [64-19-7]. For
     example, a conc. for prepn. (by diln.) of microbicidal agents comprised
     AcOH 5, H202 27.6, hydroxyethane-1.1-diphosphonic acid
     [2809-21-4] 1.5, a C12 alkylbenzenesulfonate 1.5, and H2O 64.4%. The
     conc. contained 28.3% H2O2 and 2.3% peracetic acid just after prepn., 27.5
     and 2.3%, resp., after 1 mo, and 26.5 and 2.3%, resp., after 6 mo.
     Similar storage stability was also obsd. at 40.degree..
     Carboxylic acids, biological studies
        (aliph. peroxy, in disinfectant and oxidizing concs. with
       hydrogen peroxide and phosphonates and
       acylbenzenesulfonates)
IT
     64-19-7, biological studies
     RL: BIOL (Biological study)
        (in disinfectant and oxidizing concn. with hydrogen
       peroxide and phosphonates and acylbenzenesulfonates)
     ANSWER 146 OF 158 CAPLUS COPYRIGHT 2003 ACS
L3
     1976:7905 CAPLUS
ΑN
DN
     84:7905
     Stimulation of recovery from underground deposits
TT
     Sareen, Sarvajit S.; Girard, Lucien, III; Hard, Robert A.
IN
PA
     Kennecott Copper Corp., USA
     U.S., 4 pp. Division of U.S. 3,865,435.
SO
     CODEN: USXXAM
DT
     Patent
     English
LA
FAN.CNT 2
                                           APPLICATION NO. DATE
                    KIND DATE
     PATENT NO.
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                                           -----
     ______
                                           US 1974-517677
                                                            19741024
PΙ
    US 3896879 A
                            19750729
                     A
                                           US 1973-422233
                                                            19731206
                            19750211
     US 3865435
                            19731206
PRAI US 1973-422233
     Metal recovery by in-situ leaching from underground formations is
     stimulated by injection of stabilized H2O2 [7722-84-1]. The stabilizer is
    pptd. by reaction with metals in the formation, and the unstabilized H2O2 decomposes and acts as a fracturing agent. Cu [7440-50-8] is leached from
     chalcopyrite formations by injection of 0.4M Fe2(SO4)3 [10028-22-5]. The
     wells are periodically shut down and treated with a 75% aq. H202
     (pH 4.0) contg. aminotrimethylene phosphonic acid
```

[6419-19-8] as the stabilizing agent.

AΒ Metal recovery by in-situ leaching from underground formations is stimulated by injection of stabilized H2O2 [7722-84-1]. The stabilizer is pptd. by reaction with metals in the formation, and the unstabilized H2O2 decomposes and acts as a fracturing agent. Cu [7440-50-8] is leached from chalcopyrite formations by injection of 0.4M Fe2(SO4)3 [10028-22-5]. The wells are periodically shut down and treated with a 75% aq. H202 (pH 4.0) contg. aminotrimethylene phosphonic acid [6419-19-8] as the stabilizing agent. 7440-50-8P, preparation IT RL: PREP (Preparation) (by leaching of chalcopyrite under ground, by iron sulfate solns., hydrogen peroxide in) IT 6419-19-8 RL: PROC (Process) (hydrogen peroxide contg., in leaching of copper by iron sulfate under ground) ANSWER 147 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 AN1975:437276 CAPLUS DN83:37276 Detecting hydrogen peroxide ΤI Nakagiri, Yoshitaka; Kihara, Riichiro INPΑ Toyobo Co., Ltd. SO Jpn. Tokkyo Koho, 3 pp. CODEN: JAXXAD DТ Patent LA Japanese FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ----------JP 49035715 B4 19740925 JP 1970-125534 19701229 PΙ 19701229 PRAI JP 1970-125534 A reagent mixt. for detecting H2O2 by means of the color change in an indicator owing to oxidn. contains an anionic surfactant, preferably a carboxylate, a higher alc. sulfate, an alkyl benzenesulfonate, an alkyl naphthalenesulfonate, an alkyl phosphate, or a dialkyl sulfosuccinate, to improve color stability. The preferred concn. of anionic surfactant is 0.001% when testing liqs. or >0.01% in a soln. for prepg. a testing paper. Thus, 0.2 ml of 20 mg uric acid/10 ml, 1.0 ml Na azide, and 1.0 ml uricase were mixed, and 1.0 ml citric acid buffer, 0.5 ml anionic surfactant, 1.0 ml o-toluidine hydrochloride, and 0.5 ml peroxidase were added to the mixt. A reagent mixt. for detecting H2O2 by means of the color change AB in an indicator owing to oxidn. contains an anionic surfactant, preferably a carboxylate, a higher alc. sulfate, an alkyl benzenesulfonate, an alkyl naphthalenesulfonate, an alkyl phosphate, or a dialkyl sulfosuccinate, to improve color stability. The preferred concn. of anionic surfactant is 0.001% when testing liqs. or >0.01% in a soln. for prepg. a testing paper. Thus, 0.2 ml of 20 mg uric acid/10 ml, 1.0 ml Na azide, and 1.0 ml uricase were mixed, and 1.0 ml citric acid buffer, 0.5 ml anionic surfactant, 1.0 ml o-toluidine hydrochloride, and 0.5 ml peroxidase were added to the mixt. Benzenesulfonic acid, alkyl ester IT Butanedioic acid, sulfo-, dialkyl ester Naphthalenesulfonic acid, alkyl ester Phosphoric acid, alkyl ester Sulfuric acid, ester RL: ANST (Analytical study) (stabilizer, for color formed in hydrogen peroxide detection)

ANSWER 148 OF 158 CAPLUS COPYRIGHT 2003 ACS

Bleaching with hydrogen peroxide in organic solvent

1975:549525 CAPLUS

83:149525

L3

AN DN

TΤ

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IN Cormany, Charles P.
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PA PPG Industries, Inc., USA

SO Fr. Demande, 51 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 2

L. Wita . A	C1V1 Z				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2225567	A1	19741108	FR 1974-12612	19740410
	FR 2225567	B1	19771014		
	CA 1021659	A1	19771129	CA 1974-194044	19740305
	SE 7404454	A	19741017	SE 1974-4454	19740402
	JP 50040874	A2	19750414	JP 1974-42671	19740416
	GB 1470332	Α	19770414	GB 1974-16681	19740416
PRAI	US 1973-351730		19730416		
	US 1973-413410		19731106		

AB Cotton and cotton-polyester textiles were bleached during dry cleaning with H2O2 at .gtoreq.45.degree. in the presence of Wayfos DNP-10K (I) [39464-64-7] and a small amt. of water [7732-18-5], and the H2O2 was removed by rinsing with the dry cleaning solvent contg. a detergent, iso-PrOH [67-63-0], methyl cellulose [9004-67-5], or water. Thus, cotton greige, prewashed with 3% aq. NaOH and 0.1% Triton X 100, was treated 15 min at 57.degree. with perchloroethylene contg. 35% H2O2 0.4 (based on fabric wt.), water 15.0 (based on fabric wt.), and I 0.75% (based on solvent vol.) and then rinsed 3 times with II contg. 0.75% Wayfos 6TD [55200-06-1] to give fabric contg. 0.085% residual H2O2.

## IT Polyethers

RL: USES (Uses)

(alkylarylated ethers of, detergents, contg. org. sulfonates, in hydrogen peroxide removal in bleaching of fabrics in org. solvents)

## IT Sulfonates

RL: USES (Uses)

(detergents, contg. alkaryl ethers of polyethers, in hydrogen peroxide removal in bleaching of fabrics in org. solvents)

IT Benzenesulfonic acid, dodecyl-, amine salts

Phosphoric acid, esters, salts

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, ethers, alcs. RL: USES (Uses)

(detergents, in hydrogen peroxide removal in bleaching of fabrics in org. solvents)

L3 ANSWER 149 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1974:479689 CAPLUS

DN 81:79689

TI Stable bleaching agents

IN Stalter, Neil J.

PA du Pont de Nemours, E. I., and Co.

SO Ger. Offen., 11 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

T. WITA .	CIVI				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2333201	A1	19740124	DE 1973-2333201	19730629
	US 3811833	Α	19740521	US 1972-268051	19720630
	CA 1003605	A1	19770118	CA 1973-173982	19730613
	IT 990818	Α	19750710	IT 1973-26029	19730628
	BE 801681	A1	19731015	BE 1973-132921	19730629
	FR 2190912	A1	19740201	FR 1973-23905	19730629
	JP 49052784	A2	19740522	JP 1973-73343	19730630
	GB 1419184	Α	19751224	GB 1973-31493	19730702

PRAI US 1972-268051 19720630

AB Stable aq. bleaching compns. of pH .sim.0.5-7.0 and used for bleaching detergent (Tide)-contg. laundry baths contained hydrogen peroxide [7722-84-1], Na stannate (I) [12773-27-2], ammonium sulfate (II) [7783-20-2], and Dequest 2010 (III, contg. alkylidenediphosphonic acid) [51888-66-5]. Thus, an aq. bleaching compn. of pH 2.0 (adjusted with HNO3) contained H2O2 35, III 0.1, I 0.01, and II 30% and lost 1.8% of active O on heating .sim.15 hr at 100.deg..

Stable aq. bleaching compns. of pH .sim.0.5-7.0 and used for bleaching detergent (Tide)-contg. laundry baths contained hydrogen peroxide [7722-84-1], Na stannate (I) [12773-27-2], ammonium sulfate (II) [7783-20-2], and Dequest 2010 (III, contg. alkylidenediphosphonic acid) [51888-66-5]. Thus, an aq. bleaching compn. of pH 2.0 (adjusted with HNO3) contained H2O2 35, III 0.1, I 0.01, and II 30% and lost 1.8% of active O on heating .sim.15 hr at 100.deg..

L3 ANSWER 150 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1973:85853 CAPLUS

DN 78:85853

TI Bleach-stabilizing agents

IN Kowalski, Xavier

PA Monsanto Co.

SO Ger. Offen., 28 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

,	~	-					
	PA	TENT NO.	KIND	DATE	AP:	PLICATION NO.	DATE
PI	DE	2226784	Α	19721214	DE	1972-2226784	19720602
	DE	2226784	C3	19860417			
	US	3740187	Α	19730619	US	1971-149856	19710603
	US	3766078	Α	19731016	US	1971-149854	19710603
	US	3795625	A	19740305	US	1971-149855	19710603
	ΙT	956067	Α	19731010	ΙT	1972-25149	19720531
	FR	2140213	<b>A</b> 1	19730112	FR	1972-19960	19720602
	FR	2140213	B1	19771223			
	GB	1354989	A	19740530	GB	1972-25941	19720602
	ES	403436	A1	19751201	ES	1972-403436	19720602
	JP	56052080	B4	19811209	JP	1972-54398	19720602
PRAI	US	1971-149854		19710603			
	US	1971-149855		19710603			
	US	1971-149856		19710603			

- AB Synergistic stabilizers for alk. peroxy bleaching solns. consisted of Na salts of 1-hydroxyethylidene-1,1-diphosphonic acid and nitrilotriacetic, and Ca and Mg salts. Thus, a mixt. of disodium 1-hydroxyethylidene-1,1-diphosphonate [7414-83-7], nitrilotriacetic acid trisodium salt [5064-31-3], and magnesium sulfate [7487-88-9] was an effective stabilizer for a H2O2 bleach contg. NaOH, Na silicate, and 2ppm Fe2+. Cotton fabrics bleached with the stabilized bleaching solns. were whiter than fabrics bleached with bleaches contg. conventional stabilizers.
- AB Synergistic stabilizers for alk. peroxy bleaching solns. consisted of Na salts of 1-hydroxyethylidene-1,1-diphosphonic acid and nitrilotriacetic, and Ca and Mg salts. Thus, a mixt. of disodium 1-hydroxyethylidene-1,1-diphosphonate [7414-83-7], nitrilotriacetic acid trisodium salt [5064-31-3], and magnesium sulfate [7487-88-9] was an effective stabilizer for a H2O2 bleach contg. NaOH, Na silicate, and 2ppm Fe2+. Cotton fabrics bleached with the stabilized bleaching solns. were whiter than fabrics bleached with bleaches contg. conventional stabilizers.
- L3 ANSWER 151 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1966:50704 CAPLUS

64:50704 DN OREF 64:9435f-h TI Water purification by liquid-liquid extraction Canadian Industries Ltd. PΑ SO DT Patent LΑ Unavailable FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----\_\_\_\_\_ NL 65004197 19651004 NLPΙ 19640402 PRAI CA Fe, Cu, and Mn ions are extd. from H2O by an org. acid dissolved in an AB org. solvent, not miscible with H2O. The org. acid is regenerated by extg. the metal ions with an inorg. acid, such as 2-20 wt. %, H2SO4, HNO3, H3PO4, or HCl. Org. acids with >8 C atoms per mol., e.g. aromatic and aliphatic fatty acids, esp. tertiary monobasic acids with 9-11 C atoms in the main chain and aliphatic and aromatic phosphonic and sulfonic acids are useful. Org. solvents, not miscible with H2O, that can be used are aromatic liquid hydrocarbons, such as benzene, toluene, and xylene, and cyclic and acyclic aliphatic hydrocarbons, such as hexane, cyclohexane, and kerosine, and alcs. such as n-hexanol. The concn. of the org. acids are 10-50 wt. %. The invention is applied particularly to aq. solns. for the prepn. of H2O2 and to the process of Can. 673.355 (CA 60, 5110b). This method uses less inorg. acid than the process with ion exchange resins. In an example 25% di(2-ethylhexyl)phosphoric acid in xylene was used to decrease the Fe content from 1.15 to 0.2 ppm. and Cu from 1.18 0.31 ppm. IT Sulfonic acids (metal extn. from H2O2 soln. and water by immiscible soln. IT 13598-36-2, Phosphonic acid (derivs., metal extn. from H2O2 soln. and water by immiscible soln. of) ANSWER 152 OF 158 CAPLUS COPYRIGHT 2003 ACS L3 AN1965:401793 CAPLUS 63:1793 DN OREF 63:278c-e TIHydrogen peroxide PΑ Imperial Chemical Industries Ltd. SQ 11 pp. DTPatent LA Unavailable FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE -----\_\_\_\_\_ NL 64008112 NL19650125 ΡI 19630723 PRAI GB The H2O2 was prepd. by treating H with O in a liquid phase, consisting of water, a stabilizer, a catalyst, an acid, and an org. compd. Suitable stabilizers are sequestering agents, such as aluminates, silicates, titanates, stannates, antimonates, salts of oxyacids of P, phenolic compds. (thymol), salicylates, citrates, hydroxyquinolines, carboxypyridines, carboxyquinolines, hexamethylenetetramine, nitriloacetic acids, .alpha.-amino carboxylic acids, acetanilide, phenacetin, BzOH, glycerol Ph ether, thiourea, uric acid, and glycol monoacetate. Colloids, such as gum arabic, gum tragacanth, albumin, gelatin, agar, and phosphatides, and cation-exchange resins are likewise useful as stabilizers. The quantity present can be 20-200 ppm. In some cases it is

sufficient to wash the reaction vessel with a satd. soln. of stabilizer. Elements of Groups I and VIII of the periodic system can be used as catalysts. Preferred is Pd with silica gel as a carrier. The acid used must be stronger than AcOH. The acidity of the phase must be > 10-5N,

e.g. 10-4N-N. An inorg. acid is preferred, such as HNO3, HF, HBr, H3PO4, and sulfonic acids. It is useful if the chloride ion is used. The concn. should be 10-4-0.1 N. The org. compd. must be water-sol. It can be an alc., aldehyde, ketone, ether, ester, amide, or an O-contg. amine of a carboxylic acid. Acetone (40-90 vol. %) is preferred. Example: A Pyrex vessel is washed with a satd. soln. of Na4P2O7, 100 ml. of 10-2N HCl and 10-1N H2SO4 in a mixt. of acetone (75 vol. %) and water is filled in the vessel. One g. Pd powder (5%) on silica gel is added. The mixt. is cooled to 0.degree. and agitated. A mixt. of 1 part H and 4 parts of air is led in at normal pressure for 5 hrs. (25 l./hr.). H2O2 (2.85 g.) is formed. When the vessel was not washed with Na4P2O7, 0.83 g. of H2O2 is formed. Neth. Appl. 6,408,187; 7 pp. H3BO3 and a 2nd acid, stronger than AcOH, are used. Sulfonic acids (in hydrogen peroxide manuf. from H and O) Boric acid Phosphoric acid, hexose esters (in hydrogen peroxide manuf. from H and O)

L3 ANSWER 153 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1956:92550 CAPLUS

DN 50:92550

IT

IT

OREF 50:17354a-b

TI Hydrogen peroxide

IN Rust, Frederick F.; Porter, Lee M.; Vaughan, Wm. E.

PA N. V. de Bataafsche Petroleum Maatschappij

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI GB 751508 19560627 GB

AB A faster conversion and higher yield are obtained in the H2O2 synthesis described earlier (C.A. 48, 11017a) if the alc. contains small amts. of both an alc.-sol. heavy metal salt (I) and a H2O2 stabilizer (II). Suitable I-II combinations are Co (as Co isovalerylacetone) 0.00009 and H3PO4 0.0035; Fe (as Fe2(SO4)3) 0.0001 and H3PO4 0.0003%. Other I are Ni, Mn, or Cr salts. Other II are oxy acids of Sn and alkali metal salts of oxyacids of Sn or P.

IT Iron sulfates, Fe2(SO4)3

(secondary alc. stabilization for **H2O2** manuf. with H3PO4 or Na4P2O7 and)

IT 7664-38-2, Phosphoric acid

(mixts. of, with heavy-metal salts, iso-PrOH stabilization with, for H2O2 manuf.)

L3 ANSWER 154 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1955:34951 CAPLUS

DN 49:34951

OREF 49:6705f-i,6706a

TI Stabilization of hydrogen peroxide

AU Seshadri, K.

CS Indian Inst. Sci., Bangalore

SO Journal of Scientific & Industrial Research (1954), 13B, 575-80 CODEN: JSIRAC; ISSN: 0022-4456

DT Journal

LA Unavailable

AB cf. Isemura, C.A. 45, 5500h. The decompn. of 3-30% H2O2 solns. in the presence of various stabilizers was investigated. The stability of H2O2 solns. was detd by storing the solns. for 2 yrs. in the presence of various stabilizers and then testing for remaining H2O2. Thirteen solns. were further tested by boiling under reflux the H2O2 soln. with added stabilizer and detn. of residual H2O2 after 1, 3, and 6-hr. intervals. The decompn. of H2O2 soln: at b.p. for 1 hr. was approx. equal to the

decompn. of the soln. stored for 1 yr. at room temp. Among the stabilizers examd., in the order of their decreasing effectiveness were: tartaric acid and Na salicylate mixt., sulfanilamide, 8-hydroxyquinoline, nipagin (I), acetanilide (II), and phenacetin (III). The activity of these stabilizers was attributed to their ability to deactivate the decompn. of catalysts of H2O2 by complex formation or chelation. Other compds. tested and found to be less effective were: AcOH, AcNH2, aspirin, adipic acid, barbituric acid, barbital, BzOH, BzNHPh, BzNH2, Ca(H2PO4)2, CaHPO4, Ca3(PO4)2, EtOH, (CH2OH)2, Et2O, glycerol, hydroquinone, malic acid, mepacrine, malonic acid, 1-naphthylamine, HPO3, H3PO4, phenylbarbital, phenyl cincholine, phenyl salicylate, quinine sulfate, quinine glycerophosphate, quinine salicylate, salicylic acid, Na stannate, Na4P2O7, Na glycerophosphate, Na3PO4, H2SO4, succinic acid, uric acid, and urea. The results obtained with I, II, and III indicated that high concn. of stabilizer was worse than no stabilizer at all, and there seemed to be no simple relation between concn. of stabilizer and the rate of retardation of decompn. of H2O2. The optimum concns. of I, II, and III are 0.10, 0.02, and 0.025%, resp. A mixed stabilizer of Deutsche Gold und Silber Scheide-Anstalt was superior to all other mixts. of stabilizers tried.

IT Quinine, glycerophosphate, salicylate
Quinine, glycerophosphate, sulfate
(hydrogen peroxide stabilization by)

50-78-2, Acetylsalicylic acid 54-21-7, Sodium ΙT 50-06-6, Phenobarbital 55-21-0, Benzamide salicylate 56-81-5, Glycerol 57-13-6, Urea 60-29-7, Ethyl ether 60-35-5, Acetamide 62-44-2, Phenacetin 64-17-5, Ethyl alcohol 64-19-7, Acetic acid 65-85-0, Sulfanilamide 67-52-7, Barbituric acid 69-93-2, Uric acid 83-89-6, Benzoic acid 87-69-4, Tartaric acid 93-98-1, Benzanilide 99-76-3, Ouinacrine Benzoic acid, p-hydroxy-, methyl ester 103-84-4, Acetanilide 107-21-1, Ethylene glycol 110-15-6, Succinic acid 118-55-8, Salol 123-31-9, Hydroquinone 124-04-9, Adipic acid 134-32-7, 1-Naphthylamine 141-82-2, Malonic acid 6915-15-7, Malic acid 7601-54-9, Sodium 7664-38-2, Phosphoric acid phosphate, Na3PO4 (as hydrogen peroxide stabilizer)

L3 ANSWER 155 OF 158 CAPLUS COPYRIGHT 2003 ACS

AN 1954:31454 CAPLUS

DN 48:31454

OREF 48:5624g-h

- TI Delaying action of distilled water on catalytic decomposition of hydrogen peroxide
- AU Krause, Alfons; Olejnik, Gwidon
- CS Univ. Poznan, Pol.
- SO Roczniki Chemii (1953), 27, 17-22 CODEN: ROCHAC; ISSN: 0035-7677
- DT Journal
- LA German
- AB The decompn. of H2O2 by Ag2O at 37.degree. was delayed by distd. water contg. H2CO3. Small amts. of HCl, H2SO4, Na2SO4, H3PO4, and CH3COOH have similar action, attributed to formation of complex compds. with Ag2O.
- IT 64-19-7, Acetic acid 463-79-6, Carbonic acid 7647-01-0, Hydrochloric acid 7664-38-2, Phosphoric acid 7757-82-6, Sodium sulfate, Na2SO4

(effect on H2O2 decompn. by Ag2O)

- L3 ANSWER 156 OF 158 CAPLUS COPYRIGHT 2003 ACS
- AN 1952:10789 CAPLUS
- DN 46:10789
- OREF 46:1891e-f
- TI Activated carbon electrodes for air-depolarized wet cells. I. The decomposition of hydrogen peroxide on account of activated charcoals
- AU Watanabe, Jun; Shiramoto, Tomizo
- CS Matsushita Elec. Ind. Co., Osaka

- SO Denki Kagaku (1951), 19, 274-9 CODEN: DNKKA2; ISSN: 0366-9440
- DT Journal
- LA Unavailable
- The activity of charcoals activated by many inorg. reagents was studied by measuring the decompn. velocity of aq. H2O2 in the presence of the sample charcoal. The charcoals activated with NaOH, KOH, KMnO4, H2SO4, H3PO4, and other metallic sulfates gave the lowest decompn. velocity values; while HClO4, HNO3, NH4Cl, (NH4)2SO4, MgCl2, FeCl2, Co(NO3)2, SnCl2, etc., gave medium values; and MnCl2, CoCl2, PdCl2, H2PtCl6, etc., gave considerably higher values.
- IT Sulfates

(charcoal activated with, H2O2 decompn. on)

IT 7664-38-2, Phosphoric acid

(charcoal activated with, H2O2 decompn. in)

1310-73-2, Sodium hydroxide 7601-90-3, IT 1310-58-3, Potassium hydroxide Perchloric acid 7647-10-1, Palladium chloride, PdCl2 7664-93-9, Sulfuric acid 7697-37-2, Nitric acid 7722-64-7, Potassium permanganate 7758-94-3, Iron chloride, FeCl2 7772-99-8, Tin chloride, SnCl2 7783-20-2, Ammonium sulfate 7773-01-5, Manganese chloride, MnCl2 10141-05-6, Cobalt nitrate, Co(NO3)2 12125-02-9, Ammonium chloride 16941-12-1, Chloroplatinic(IV) acid (H2PtCl6) (charcoal activated with, H2O2 decompn. on)

- L3 ANSWER 157 OF 158 JAPIO COPYRIGHT 2003 JPO
- AN 2000-197899 JAPIO
- TI AGENT AND METHOD FOR PURIFICATION TREATMENT OF LAKE, MARSH, AND THE LIKE
- IN TANIMOTO KAYOHIKO; YARA HIDEO; FURUYA MASAAKI; GIBO MASAMI
- PA KANKYO BIKEN:KK
- PI JP 2000197899 A 20000718 Heisei
- AI JP 1999-1797 (JP11001797 Heisei) 19990107
- PRAI JP 1999-1797 19990107
- SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000
- PROBLEM TO BE SOLVED: To restore a natural ecological system by converting AB nutritious components eluted from bottom sludge in a reduced state into inactive substances by using a purifying agent prepared by mixing an oxidation promoter and sodium silicate in an appropriate ratio. SOLUTION: A purifying agent for lakes, marshes, and others comprises an oxidation promoter and sodium silicate as an additive, the mixing ratio of which is about 50%. In the promoter, 500-1,000 g of pure water, 25-50 g of ammonium persulfate, 25-50 g of calcium nitrate, 2-4 g of phosphonic acid, and 15-30 g of dilute sulfuric acid are mixed. In place of ammonium sulfate which is used as a component of the promoter, sodium persulfate and hydrogen peroxide can be used. By injecting an appropriate amount of the purifying agent directly at each time into lake bottom sludge, the sludge is reformed fundamentally so that lake water can be clarified while the original selfpurifying capacity of a lake is being restored. COPYRIGHT: (C) 2000, JPO
- AB . . . the promoter, 500-1,000 g of pure water, 25-50 g of ammonium persulfate, 25-50 g of calcium nitrate, 2-4 g of phosphonic acid, and 15-30 g of dilute sulfuric acid are mixed. In place of ammonium sulfate which is used as a component of the promoter, sodium persulfate and hydrogen peroxide can be used. By injecting an appropriate amount of the purifying agent directly at each time into lake bottom sludge, . . .
- L3 ANSWER 158 OF 158 JAPIO COPYRIGHT 2003 JPO
- AN 2000-191328 JAPIO
- TI PRODUCTION OF FERRIC SULFATE SOLUTION
- IN TSUKAMOTO TATSUO; KAKIO TOSHIHIKO
- PA TAKI CHEM CO LTD
- PI JP 2000191328 A 20000711 Heisei
- AI JP 1998-368298 (JP10368298 Heisei) 19981225

PRAI JP 1998-368298 19981225

PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2000 PROBLEM TO BE SOLVED: To obtain an iron type inorganic flocculant having a AΒ turbidity removing effect comparable to or higher than that of an aluminum type flocculant by oxidizing a ferrous sulfate solution having a specified concentration of total iron, containing phosphate or polyphosphate ions in a specified P to Fe molar ratio and having a specified Fe3+ to Fe2+ molar ratio.

SOLUTION: A ferrous sulfate solution having >=10 wt.% (expressed in terms of Fe) concentration of total iron, containing phosphate or polyphosphate ions in a P to Fe molar ratio of 0.1-0.45 and having an Fe3+ to Fe2+ molar ratio of <=1 is oxidized. The ferrous sulfate solution is not particularly limited, a solution discharged from a step for pickling a steel sheet, a steel wire or the like may be used and powdery or liquid ferrous sulfate discharged from the titanium industry may also be used. Phosphoric acid or its water-soluble salt may be used as a phosphate or polyphosphate ion donor. The oxidation is carried out by direct oxidation with oxygen or the like or with an oxidizing agent such as hydrogen peroxide to such a degree that all of iron (II) in the ferrous sulfate solution is oxidized to iron (III).

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AB

. . the like may be used and powdery or liquid ferrous sulfate discharged from the titanium industry may also be used. Phosphoric acid or its water-soluble salt may be used as a phosphate or polyphosphate ion donor. The oxidation is carried out by direct oxidation with oxygen or the like or with an oxidizing agent such as hydrogen peroxide to such a degree that all of iron (II) in the ferrous sulfate solution is oxidized to iron (III). COPYRIGHT: (C) 2000, JPO